



A solution minded, performance driven, and customer focused global supplier of passive RF and Microwave components.

RF & Microwave Components

Short Form Catalog

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How to use this catalog:

This catalog is designed to give you a general description of the broad selection of products manufactured by Inmet. When used in conjunction with our website, you can view, print or download detailed data sheets for each product in PDF format. Each sheet contains an outline drawing, electrical and mechanical specifications, as well as part number examples. It's easy:

1. Simply log on to www.inmet.apitech.com.
2. At the center of the home page under Inmet Products you may select "toggle all" to see all subgroupings within each product family.
3. You can select the product subgroup of interest and by selecting one, you will be directed to a landing page for all models within this subgroup.
4. You may also search by model number by using the search function on the home page.
5. From here you can download a Product Data Sheet for the selected item, or you may request a quote by clicking the "Quote" button next to the model number.

Catalog Notes

The 2.9mm products shown herein are in fact 2.92mm components. Inmet has elected to use 2.9mm as a "shorthand" designation for the 2.92mm standard.

Components with SMP connectors will also mate with GPO™ products; and the SMPM products mate with GPPO™ components.

The trademarks of "GPO™" and "GPPO™" appearing in this catalog are trademarks of Coming Gilbert Inc.

RoHS 2 Statement

All catalog products shipped after January 2013 conform to the requirements as specified in the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and related Annex and Amendments on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS). All catalog products shipped between July 2006 and January 2013 conformed to Directive 2002/95/EC.

The information presented on this website is believed to be accurate, reliable and is a result of review of numerous sources including vendor submitted data sheets and certifications.

Notes:

1. Equalizers are not considered standard catalog products for the purpose of this statement.
2. Some equalizer products may already be RoHS compliant. Please direct any questions to InmetSales@apitech.com
3. Surface Mount products are available with RoHS compliant and non RoHS compliant terminations. Please refer to product specific data sheets.



Manufacturer and designer of wireless and microwave components, Inmet's custom design capabilities have generated a substantial number of innovative microwave and wireless components for many markets and programs for more than 40 years.

As product development is a core value, Inmet will continue to demonstrate its talent for tackling new design tasks. Unusual customer specifications which require Inmet engineering to build custom components enable Inmet to stay ahead in wireless technology by designing, creating, testing and delivering products to be used in 2G, 3G, 4G and 5G systems and beyond.

Enthusiastic reaction to Inmet's total commitment to quality, selection, and just-in-time delivery of precision-made microwave and wireless components has resulted in Inmet's "preferred supplier" designation by many buyers. With notable success in advancing new products, the company's widely known lineup of off-the-shelf products is relied upon by its many customers.

Coaxial components in the DC to 65 GHz frequency range with power levels from 1 to 300 Watts, enhance Inmet's vision to become the world's number one source for coaxial attenuators. The company offers over 3,000 variations of coaxial products including:

- Coaxial Attenuators (1-300 Watt, DC-50 GHz)
- Adapters (In-series and Between Series, DC-65 GHz)
- DC Blocks (Inner, Outer, Inner/Outer Designs up to 40 GHz)
- Equalizers (High Performance, DC-40 GHz)
- Short and Open Circuits (DC-18 GHz)
- Terminations (1-300 Watts, DC-50 GHz)
- Power Dividers, (DC-26.5 GHz)
- Bias Tees (General Purpose, High Power, Broadband)
- Powerfilm Surface Mount Products (DC-27 GHz)

Inmet also designs and manufactures multicomponent hybrid products such as "between series attenuators," combination" DC block/attenuators," and "by-pass attenuators." Today, Inmet is a leader in reducing the costs of components while maintaining "first class performance."

In addition, many products are available through Inmet's distributors. See website www.inmet.apitech.com/inmet/distributors. By increasing your efficiency and profitability through our total commitment to service, support, quality, delivery, low prices and innovation, Inmet ensures your success . . . which in turn becomes Inmet's success as well.

Model A/AH SMA 2 Watt SHORT: 0.86" Nominal Length



Models 2A, 6A, 18A, 23A 2AH, 6AH, 18AH, 23AH

Frequency Range.....DC to 23GHz
Available Values0-10, 12, 15, 20, 30dB
Accuracy of Attenuation:
0 through 6dB.....±0.3dB maximum
7 through 20dB±0.5dB maximum
21 through 30dB..... ±0.75dB maximum
VSWR:
DC to 4GHz 1.15:1 maximum
4GHz to 8GHz..... 1.20:1 maximum
8GHz to 12.4GHz..... 1.25:1 maximum
12.4GHz to 18GHz..... 1.35:1 maximum
18GHz to 23GHz..... 1.40:1 maximum

Overall length in inches

	0-12dB	13-30dB
M/F	.86 ± .03	.99 ± .03
M/M	.98 ± .03	1.11 ± .03
F/F	.87 ± .03	1.00 ± .03

Complete Specification Sheet Available

Model C SMA 2 Watt SHORTER: 0.76" Nominal Length



Models 2C, 6C, 18C

Frequency Range.....DC to 18GHz
Available Values0-10, 12, 15, 20, 30dB
Accuracy of Attenuation:
0 through 6dB.....±0.3dB maximum
7 through 20dB±0.5dB maximum
21 through 30dB..... ±0.75dB maximum
VSWR:
DC to 4GHz 1.15:1 maximum
4GHz to 8GHz..... 1.20:1 maximum
8GHz to 12.4GHz..... 1.25:1 maximum
12.4GHz to 18GHz..... 1.35:1 maximum

Overall length in inches

	0-12dB	13-30dB
M/F	.76 ± .03	.89 ± .03

Complete Specification Sheet Available

Model DH SMA 2 Watt SHORTEST: 0.70" Nominal Length



Models 2DH, 6DH, 18DH, 23DH

Frequency Range..... DC to 23GHz
Available Values0-10, 12, 15, 20, 30, 40dB
Accuracy of Attenuation:
0 through 6dB.....±0.3dB maximum
7 through 19dB±0.5dB maximum
20 through 30dB.....±0.7dB maximum
31 through 35dB.....±1.0dB maximum
36 through 40dB.....±1.5dB maximum
VSWR:
DC to 4GHz 1.15:1 maximum
4GHz to 8GHz..... 1.20:1 maximum
8GHz to 12.4GHz..... 1.25:1 maximum
12.4GHz to 23GHz..... 1.35:1 maximum

Overall length in inches

	0-20dB	21-40dB
M/F	.70 ± .03	.83 ± .03
M/M	.76 ± .03	.89 ± .03
F/F	.64 ± .03	.77 ± .03

Complete Specification Sheet Available

Model AS398 SMA 1 Watt



Model AS398

Frequency Range..... DC to 3 GHz
Available Values 1-10, 12, 15, 20, 30dB
Accuracy of Attenuation:
1 through 10,12,15,20dB±0.3dB maximum
30dB±0.5dB maximum VSWR:
DC to 3 GHz..... 1.20:1 maximum

Overall length in inches

	1-20dB	30dB
M/F	.83 ± .05	1.02 ± .05

Complete Specification Sheet Available

Model AHC SMA 2 Watt



Model AHC

Frequency Range..... DC to 6 GHz
Available Values0-10, 12, 15, 20, 30, 40dB
Accuracy of Attenuation:
1 through 10dB±0.5dB maximum
12, 15, 20dB±0.7dB maximum
30dB±0.9dB maximum
40dB±1.5dB maximum
VSWR:
DC to 6 GHz..... 1.20:1 maximum

Overall length in inches

	0-12,15 & 20dB	30 & 40dB
M/F	.86 ± .03	.97 ± .03

Complete Specification Sheet Available

9000 Series General Purpose 18GHz SMA Attenuators

Models 9023, 9024, 9025 (2 Watts)

Available Values0-10, 12, 15, 20, 30, 40, 50, 60dB
Accuracy of Attenuation:
0 through 12dB ±0.75dB maximum
13 through 20dB..... ±1.00dB maximum
21 through 40dB..... ±1.50dB maximum
41 through 60dB..... ±2.00dB maximum

Models 9026 through 9031 (2 Watts)

Available Values0-10, 12, 15, 20, 30dB
Accuracy of Attenuation:
0 through 12dB ±0.75dB maximum
13 through 20dB..... ±1.00dB maximum
21 through 30dB..... ±1.50dB maximum
VSWR: (All Models)
DC to 4GHz 1.20:1 maximum
4GHz to 12.4GHz..... 1.40:1 maximum
12.4GHz to 18GHz..... 1.60:1 maximum

Overall length in inches

		0-30&40dB	31-60dB (except 40)
9023	M/F no hex	1.21±.03	1.49±.03
9024	M/M no hex	1.33±.03	1.62±.03
9025	F/F no hex	1.06±.03	1.35±.03
		0-12 dB	13-30dB
9026	M/F no hex	.86±.03	.99±.03
9027	M/M no hex	.98±.03	1.11±.03
9028	F/F no hex	.87±.03	1.00±.03
9029	M/F w/hex	.86±.03	.99±.03
9030	M/M w/hex	.98±.03	1.11±.03
9031	F/F w/hex	.87±.03	1.00±.03

Complete Specification Sheets Available

Model B SMA 2 Watt 1.21" Nominal Length



Models 2B, 6B, 18B

Frequency Range.....DC to 18GHz
 Available Values..... 0-10, 12, 15, 20, 30, 40, 50, 60dB
 Accuracy of Attenuation:
 0 through 6dB.....±0.3dB maximum
 7 through 20dB.....±0.5dB maximum
 21 through 30dB.....±0.75dB maximum
 31 through 60dB.....±1.50dB maximum
 VSWR:
 DC to 4GHz..... 1.15:1 maximum
 4GHz to 8GHz..... 1.20:1 maximum
 8GHz to 12.4GHz..... 1.25:1 maximum
 12.4GHz to 18GHz..... 1.35:1 maximum

Overall length in inches

	0-30 & 40dB	31-60dB
M/F	1.21 ± .03	1.49 ± .03
M/M	1.33 ± .03	1.62 ± .03
F/F	1.06 ± .03	1.35 ± .03

Complete Specification Sheet Available

High Frequency 2.9mm Series DC-26.5 GHz



MODELS 26A AND 26AH (2 Watts)

Frequency Range.....DC to 26.5GHz
 Available Values.....0, 3, 6, 10, 20, 30dB
 VSWR:
 DC to 18GHz..... 1.30:1 maximum
 18GHz to 26.5GHz..... 1.40:1 maximum

Overall length in inches

	26.5GHz	0-12dB	13-30dB
M/F	.88 ± .05	1.01 ± .05	

Complete Specification Sheet Available

High Frequency 2.9mm Series DC-40 GHz



MODELS 40A, 40AH (0.5 Watt)

Frequency Range.....DC to 40GHz
 Available Values.....0, 3, 6, 10, 20, 30dB VSWR:
 DC to 18GHz..... 1.30:1 maximum
 18GHz to 40GHz..... 1.40:1 maximum

MODELS 40A2W, 40AH2W (2 Watts)

Frequency Range.....DC to 40GHz
 Available Values.....3, 6, 10, 20, 30dB VSWR:
 DC to 18GHz..... 1.30:1 maximum
 18GHz to 40GHz..... 1.40:1 maximum

Overall length in inches

	40GHz	0-30dB
M/F	.88 ± .05	

Complete Specification Sheet Available

High Frequency 2.4mm & 1.85mm Series DC-50 GHz



Models 40EH and 50EH - 2.4mm (0.5 Watt)

Frequency Range.....DC to 50GHz
 Available Values.....0, 3, 6, 10, 20, 30dB
 Accuracy of Attenuation:

DC - 26.5 GHz

0 through 10dB.....±0.5dB maximum
 20 & 30dB.....±0.75dB maximum

26.5 - 40 GHz

0 through 10dB.....±1.0dB maximum
 20 & 30dB.....±1.25dB maximum

40 - 50 GHz

0 through 10dB.....±1.5dB maximum
 20 & 30dB.....±2.0dB maximum VSWR:
 DC to 26.5 GHz..... 1.35:1 maximum
 26.5 to 40 GHz..... 1.60:1 maximum
 40 to 50 GHz..... 1.75:1 maximum

Models 50V - 1.85mm (2 Watts)

Frequency Range.....DC to 50GHz
 Available Values..... 3, 6, 10dB
 Complete Specification Sheet Available

SMP, GPO™ Series DC-26.5 GHz



Models 18G, 18P (2 Watts)

Frequency Range.....DC to 18GHz
 Available Values..... 0-10, 12, 15, 20 and 30dB
 Accuracy of Attenuation:
 0 through 6dB.....±0.4dB maximum
 7 through 12dB.....±0.6dB maximum
 20 and 30dB.....±0.8dB maximum VSWR:
 DC to 8GHz..... 1.25:1 maximum
 8GHz to 18GHz..... 1.35:1 maximum

Models 26G, 26P (2 Watts)

Frequency Range.....DC to 26.5GHz
 Available Values.....0, 3, 6, 10, 20 and 30dB
 Accuracy of Attenuation:
 DC-26.5GHz
 0-4 and 6dB.....±0.6dB maximum
 10dB.....±0.8dB maximum
 20 and 30dB.....±1.2dB maximum VSWR:
 DC to 26.5GHz..... 1.45:1 maximum

Note: GPO™ and SMP male connectors are available in full and limited detent.

Complete Specification Sheet Available

SMPM Series DC-26.5 GHz



MODELS 6MP and 18MP (2 Watts)

Frequency Range.....DC to 18GHz
 Available Values.....0-10, 12, 15, 20, 30dB VSWR:
 DC to 18GHz..... 1.35:1 maximum

MODEL 26MP (2 Watts)

Frequency Range.....DC to 26.5GHz
 Available Values.....3, 6, 10, 20, 30dB VSWR:
 DC to 18GHz..... 1.35:1 maximum
 18 to 26.5GHz..... 1.50:1 maximum

Overall length in inches

	18GHz	0-15, 20 dB	30 dB
M/F	.61 ± .05	.74 ± .05	
M/M	.61 ± .05	.74 ± .05	
F/F	.61 ± .05	.74 ± .05	

Complete Specification Sheet Available

TNC Series

2 Watts




Model 9042 & 9036 (Nickel Plated Brass)
 Frequency Range..... DC to 12.4GHz
 Available Values 0-10, 12, 15, 20, 30 & 40dB

Models 18T (Stainless Steel)
 Frequency Range.....DC to 18GHz
 Available Values0-10, 12, 15, 20, 30, 40, 50, 60dB
 Accuracy of Attenuation:
 0 through 6dB.....±0.3dB maximum
 7 through 20dB.....±0.5dB maximum
 30dB±0.75dB maximum
 40dB±1.0dB maximum
 50 & 60dB±1.50dB maximum* VSWR:
 DC to 4GHz..... 1.15:1 maximum
 4GHz to 8GHz..... 1.20:1 maximum
 8GHz to 12.4GHz..... 1.25:1 maximum
 12.4GHz to 18GHz..... 1.35:1 maximum*
 *18T only
 Complete Specification Sheet Available

N Series

(50 and 75 Ohms)



50 Ohms

Nickel Plated Brass
Models 9070 (2 Watts)
 Frequency Range..... DC to 6GHz
 Available Values 10, 12, 15, 20, 30, and 40 dB
 VSWR:
 DC to 2GHz 1.25:1 maximum


Models 2N, 6N, 18N (Stainless Steel) (2 Watts)
 Frequency Range.....DC to 18GHz
 Available Values0-10, 12, 15, 20, 30, 40, 50 and 60dB
 VSWR:
 DC to 4GHz 1.15:1 maximum
 4GHz to 8GHz..... 1.20:1 maximum
 8GHz to 12.4GHz..... 1.25:1 maximum
 12.4GHz to 18GHz..... 1.35:1 maximum

75 Ohms

Model 4N-XX/75 (2 Watts)
 Frequency Range..... DC to 4GHz
 Available Values 1, 2, 3, 6, 10, 20 and 30dB
 VSWR..... 1.30:1 maximum
 Complete Specification Sheet Available

BNC Series

(50 and 75 Ohms)



50 Ohms

Model 9033 (2 Watts)
 Frequency Range..... DC to 4GHz
 Available Values0-10, 12, 15, 20, 30dB VSWR:
 DC to 4GHz 1.25:1 maximum

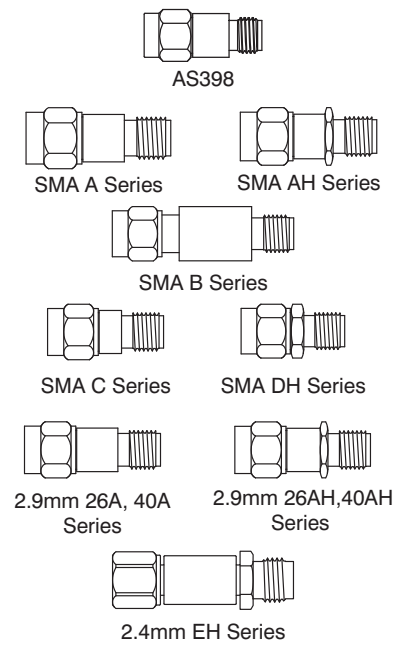
Model 9014 (2 Watts)
 Frequency Range..... DC to 4GHz
 Available Values 40, 50 & 60 dB VSWR:
 DC to 4GHz 1.25:1 maximum

Model 2051 (2 Watts)
 Frequency Range..... DC to 12.4 GHz
 Available Values3, 6, 10, 20 & 30dB VSWR:
 DC to 4GHz 1.25:1 maximum
 4GHz to 8GHz..... 1.30:1 maximum
 8GHz to 12.4GHz..... 1.35:1 maximum

75 Ohms

Model 9033-XX/75 (2 Watts)
 Frequency Range..... DC to 4GHz
 Available Values 0, 3, 6, 10, 20 & 30dB VSWR:
 DC to 1GHz 1.10:1 maximum
 1GHz to 2GHz..... 1.20:1 maximum
 2GHz to 4GHz..... 1.35:1 maximum
 Complete Specification Sheet Available

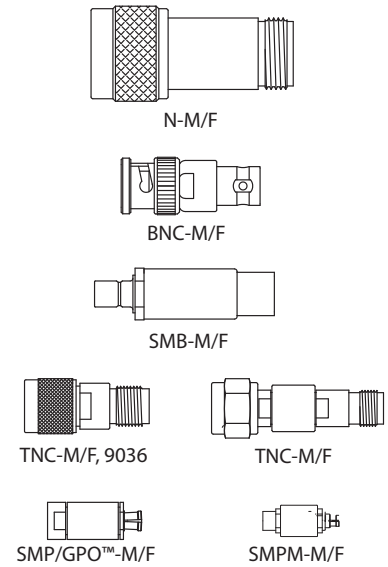
MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR	ATTN (dB)
0.5 Watt, 1 Watt and 2 Watt Attenuators				
AS398 (1 Watt)	3	SMA-M/F	1.20:1	1-10,12,15,20,30
AHC	6	SMA-M/F	1.20:1	1-10,12,15,20,30,40
FHC	6	SMA-M/F	1.20:1	1-10,12,15,20,30,40
9026, (Style A)	18	SMA-M/F	1.60:1	0-10,12,15,20,30
9029, (Style AH)	18	SMA-M/F	1.60:1	0-10,12,15,20,30
9023, (Style B)	18	SMA-M/F	1.60:1	0-10,12,15,20,30,40,50,60
2A, 2AH	2.5	SMA-M/F, M/M, F/F	1.15:1	0-10,12,15,20,30,40
2DH	2.5	SMA-M/F, M/M, F/F	1.15:1	0-10,12,15,20,30,40
6A, 6AH, 6FH	6	SMA-M/F, M/M, F/F	1.20:1	0-10,12,15,20,30,40
6B	6	SMA-M/F, M/M, F/F	1.20:1	0-10,12,15,20,30,40,50,60
6C	6	SMA-M/F	1.20:1	0-10,12,15,20,30
6DH	6	SMA-M/F, M/M, F/F	1.20:1	0-10,12,15,20,30,40
18A, 18AH, 18FH	18	SMA-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40
18B	18	SMA-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40,50,60
18C	18	SMA-M/F	1.35:1	0-10,12,15,20,30
18DH	18	SMA-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40
23A, 23AH	23	SMA-M/F, M/M, F/F	1.40:1	0-10,12,15,20,30,40
23DH	23	SMA-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30
26A, 26AH	26.5	2.9mm-M/F	1.40:1	0,3,6,10,20,30
40A, 40AH (0.5W)	40	2.9mm-M/F	1.40:1	0,3,6,10,20,30
40A2W, 40AH2W	40	2.9mm-M/F	1.40:1	3,6,10,20,30
40EH (0.5W)	40	2.4mm-M/F	1.60:1	0,3,6,10,20,30
50EH (0.5W)	50	2.4mm-M/F	1.75:1	0,3,6,10,20,30
50V	50	1.85mm-M/F	1.75:1	3,6,10,20,30
50EH1W	50	2.4mm-M/F	1.75:1	3,6,10,20,30



H=with Hex

See pages 2 and 3 and above for more detailed specifications. All models 2 Watt unless indicated

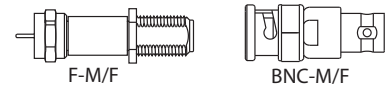
MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR	ATTN (dB)
2 Watt Attenuators, N, BNC, SMB, TNC, GPO™, SMP, SMPM, Reverse Polarity				
9070	6	N-M/F	1.25:1	1-10,12,15,20,30,40
2N	2.5	N-M/F, M/M, F/F	1.15:1	0-10,12,15,20,30,40,50,60
6N	6	N-M/F, M/M, F/F	1.20:1	0-10,12,15,20,30,40,50,60
18N	18	N-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40,50,60
9033	4	BNC-M/F	1.25:1	0-10,12,15,20,30
9014	4	BNC-M/F	1.25:1	40,50,60
2051	12.4	BNC-M/F	1.35:1	3,6,10,20,30
9056	4	SMB-M/F, M/M, F/F	1.25:1	0-12,15,20,30
9042	2.5	TNC-M/F	1.25:1	0-10,12,15,20,30,40
9036	12.4	TNC-M/F	1.25:1	0-10,12,15,20,30,40
18T	18	TNC-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40,50,60
18G	18	GPO-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30
26G	26.5	GPO-M/F, M/M, F/F	1.45:1	3,6,10,20,30
18P	18	SMP-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30
26P	26.5	SMP-M/F, M/M, F/F	1.45:1	3,6,10,20,30
6MP	6	SMPM-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30
18MP	18	SMPM-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30
26MP	26.5	SMPM-M/F, M/M, F/F	1.50:1	3,6,10,20,30
6MD	6	4.3/10-M/F	1.20:1	1-10,12,15,20,30



Note: GPO™ and SMP male connectors are available in full and limited detent.

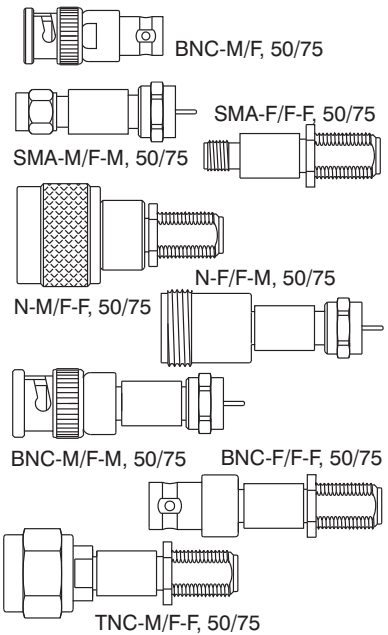
2 Watt 75 Ohm Attenuators

3F	3	F-M/F	1.15:1 ...	3,6,10,15,20,30
9033-XX/75	4	BNC-M/F	1.35:1 ...	0,3,6,10,20,30



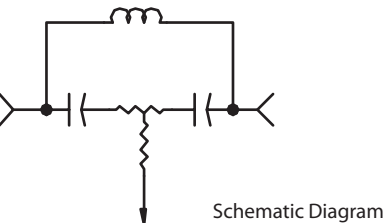
1 Watt Impedance Matching Pads (50 to 75 Ohm)

9033-50/75	1	BNC-M/F	1.20:1	5.7
9033-75/50	1	BNC-M/F	1.20:1	5.7
9070-50/75	3	N-M/F	1.35:1	5.7
9070-75/50	3	N-M/F	1.35:1	5.7
9076-50/75	3	SMA-M/F-F	1.25:1	5.7
9077-50/75	3	N-M/F-F	1.25:1	5.7
9078-50/75	3	BNC-M/F-F	1.25:1	5.7
9079-50/75	3	SMA-F/F-M	1.25:1	5.7
9080-50/75	3	SMA-M/F-M	1.25:1	5.7
9082-50/75	3	N-F/F-M	1.25:1	5.7
9083-50/75	3	N-M/F-M	1.25:1	5.7
9084-50/75	3	TNC-F/F-M	1.25:1	5.7
9085-50/75	3	TNC-M/F-M	1.25:1	5.7
9086-50/75	3	BNC-F/F-M	1.25:1	5.7
9087-50/75	3	BNC-M/F-M	1.25:1	5.7
9088-50/75	3	SMA-F/F-F	1.25:1	5.7
9089-50/75	3	N-F/F-F	1.25:1	5.7
9090-50/75	3	BNC-F/F-F	1.25:1	5.7
9091-50/75	3	TNC-M/F-F	1.25:1	5.7
9092-50/75	3	TNC-F/F-F	1.25:1	5.7



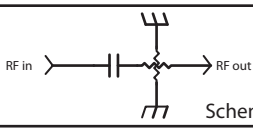
2 Watt DC Bias Passing RF Attenuators

9093-N	0.50-2	N-M/F	1.35:1	4,6,10,15,20,25
9093-SMA	0.50-2	SMA-M/F	1.35:1	4,6,10,15,20,25
9093-TNC	0.50-2	TNC-M/F	1.35:1	4,6,10,15,20,25
9093-F	0.50-2	F-M/F	75Ω 1	45:1 3,4,6,7,8,9,10,11,20
9095-N	0.05-3	N-M/F	1.35:1	3,4,6,10,15,20,25
9095-SMA	0.05-3	SMA-M/F	1.35:1	3,4,6,10,15,20,25
9095-TNC	0.05-3	TNC-M/F	1.35:1	3,4,6,10,15,20,25



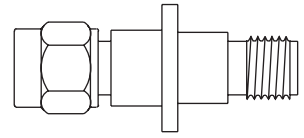
Attenuator Reference Guide

MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR	ATTN (dB)
2 Watt DC Blocking Attenuators (Also See DC Block Section, page 19)				
8516S-XX	0.01-2	SMA-M/F	1.15:1	0-10,12, 20

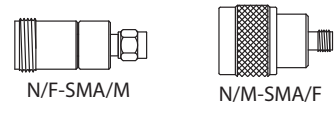


Schematic Diagram

2 Watt Flange Mount Attenuators				
2004	18	SMA-M/F	1.35:1	0-10,12,15,20,30

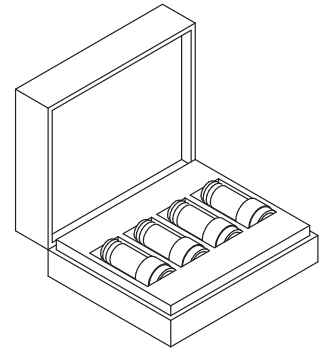


Adapting Attenuators, Between Series				
2028	18	N/M-SMA/M	1.30:1	0-10,12,15,20
2029	18	N/M-SMA/F	1.30:1	0-10,12,15,20
2030	18	N/F-SMA/M	1.30:1	0-10,12,15,20
2031	18	N/F-SMA/F	1.30:1	0-10,12,15,20



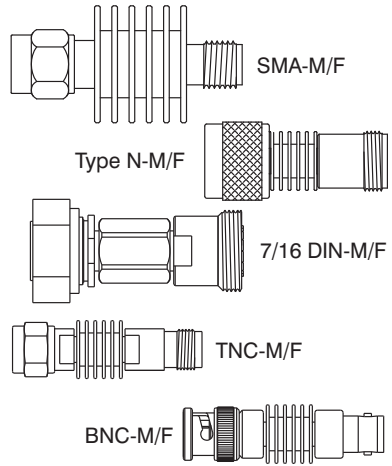
N/F-SMA/M N/M-SMA/F

Calibrated Attenuator Sets				
9401	18	N		3,6,10,20
9402	12.4	N		3,6,10,20
9403	18	SMA	(A Style)	3,6,10,20
9404	12.4	SMA	(A Style)	3,6,10,20
9405	18	N		1,3,6,10,20,30
9406	12.4	N		1,3,6,10,20,30
9407	18	SMA	(A Style)	1,3,6,10,20,30
9408	12.4	SMA	(A Style)	1,3,6,10,20,30
9477	23	SMA	(AH Style)	1,3,6,10,20,30
9473	23	SMA	(DH Style)	1,3,6,10,20,30
9411	26.5	2.9mm	(A Style)	3,6,10,20
9412	26.5	2.9mm	(A Style)	1,3,6,10,20,30
9413 (0.5W)	40	2.9mm	(A Style)	3,6,10,20
9414 (0.5W)	40	2.9mm	(A Style)	1,3,6,10,20,30
9415 (0.5W)	40	2.4mm	(EH Style)	3,6,10,20
9416 (0.5W)	50	2.4mm	(EH Style)	3,6,10,20



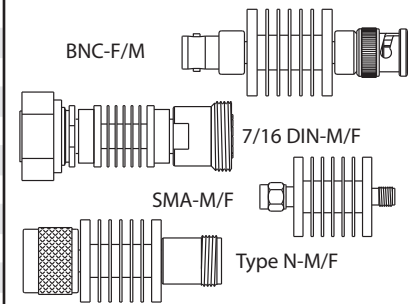
Set 9401

5 Watt Attenuators, Convection Cooled				
6B5W	6	SMA-M/F, M/M, F/F	1.20:1	0-12,15,20,30,40
18B5W	18	SMA-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40
6N5W	6	N-M/F, M/M, F/F	1.20:1	0-12,15,20,30,40
18N5W	18	N-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40
2D5W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	0-12,15,20,30,40
7D5W	7.5	7/16 DIN-M/F, M/M, F/F	1.45:1	0-12,15,20,30,40
4BNC5W	4	BNC-M/F, M/M, F/F	1.25:1	0-12,15,20,30,40
6T5W	6	TNC-M/F, M/M, F/F	1.20:1	0-12,15,20,30,40
18T5W	18	TNC-M/F, M/M, F/F	1.35:1	0-10,12,15,20,30,40
6MD5W	6	4.3/10-M/F	1.30:1	0-10,12,15,20,30,40

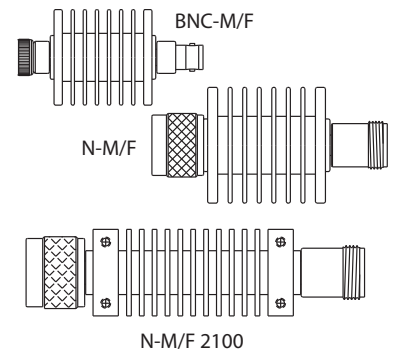


SMA-M/F
Type N-M/F
7/16 DIN-M/F
TNC-M/F
BNC-M/F

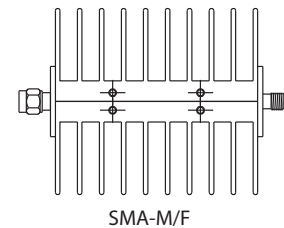
MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR	ATTN (dB)
10 Watt Attenuators, Convection Cooled				
6B10W	6	SMA-M/F, M/M, F/F	1.20:1	0-10,12,20,30,40
18B10W	18	SMA-M/F, M/M, F/F	1.40:1	0-10,12,20,30,40
6N10W	6	N-M/F, M/M, F/F	1.20:1	0-10,12,20,30,40
18N10W	18	N-M/F, M/M, F/F	1.40:1	0-10,12,20,30,40
2D10W	2.5	7/16 DIN, M/F, M/M, F/F	1.25:1	0-10,12,20,30,40
7D10W	7.5	7/16 DIN-M/F, M/M, F/F	1.45:1	0-10,12,20,30,40
4BNC10W	4	BNC-M/F, M/M, F/F	1.25:1	0-10,12,15,20,30
6T10W	6	TNC-M/F, M/M, F/F	1.20:1	0-10,12,20,30,40
18T10W	18	TNC-M/F, M/M, F/F	1.40:1	0-10,12,20,30,40
6MD10W	6	4.3/10-M/F	1.25:1	0-10,12,20,30,40



20 Watt Attenuators, Convection Cooled				
6B20W	6	SMA-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
18B20W	18	SMA-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
2099 w/mounting holes	18	SMA-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
6N20W	6	N-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
2100 w/mounting holes	18	N-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
18N20W	18	N-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
2D20W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
7D20W	7.5	7/16 DIN-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
4BNC20W	4	BNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
6T20W	6	TNC-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
18T20W	18	TNC-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
6MD20W	6	4.3/10-M/F	1.25:1	3,6,10,20,30,40

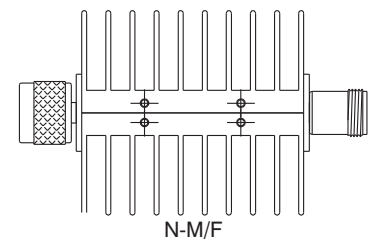


25 Watt Attenuators, Convection Cooled				
6B25W	6	SMA-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
18B25W	18	SMA-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
6N25W	6	N-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
18N25W	18	N-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
2D25W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
7D25W	7.5	7/16 DIN-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
4BNC25W	4	BNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
6T25W	6	TNC-M/F, M/M, F/F	1.20:1	3,6,10,20,30,40
18T25W	18	TNC-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
6MD25W	6	4.3/10-M/F	1.25:1	3,6,10,20,30,40



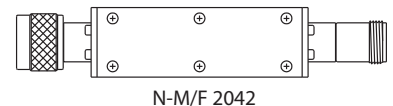
Note: Reduced height models available

50 Watt Attenuators, Convection Cooled				
6B50W	6	SMA-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
18B50W	18	SMA-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
6N50W	6	N-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
18N50W	18	N-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2D50W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
7D50W	7.5	7/16 DIN-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
4BNC50W	4	BNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
6T50W	6	TNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
18T50W	18	TNC-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
6MD50W	6	4.3/10-M/F	1.30:1	3,6,10,20,30,40



Note: Reduced height models available

50 Watt Attenuators, Conduction Cooled				
2042S	4	SMA-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
9037	18	SMA-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2042	4	N-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
2042T	4	TNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40



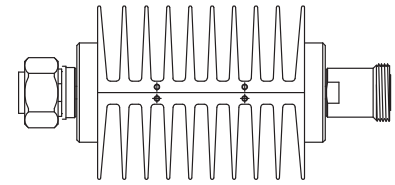
Attenuator Reference Guide

MODEL NO. FREQ. (GHz) CONNECTOR VSWR ATTN (dB)

100 Watt Attenuators, Convection Cooled

2B100W	2.5	SMA-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
6B100W	6	SMA-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2N100W	2.5	N-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
6N100W	6	N-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2D100W	2.5	7/16 DIN-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
6D100W	6	7/16 DIN-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2BNC100W	2.5	BNC-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
4BNC100W	4	BNC-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
2T100W	2.5	TNC-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
6T100W	6	TNC-M/F, M/M, F/F	1.45:1	3,6,10,20,30,40
6MD100W	6	4.3/10-M/F	1.40:1	3,6,10,20,30,40

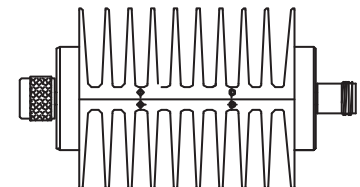
Note: Reduced height models available



7/16 DIN-M/F

150 Watt Attenuators, Convection Cooled

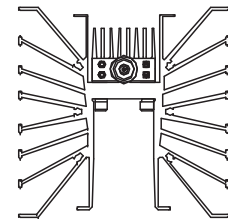
2B150W	2.5	SMA-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4B150W	4	SMA-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
2N150W	2.5	N-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4N150W	4	N-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40
2D150W	2.5	7/16 DIN-M/F, M/M, F/F	1.30:1	3,6,10,20,30,40
4D150W	4	7/16 DIN-M/F, M/M, F/F	1.40:1	3,6,10,20,30,40
2T150W	2.5	TNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4T150W	4	TNC-M/F, M/M, F/F	1.35:1	3,6,10,20,30,40



Type N Shown

200 Watt Attenuators, Convection Cooled

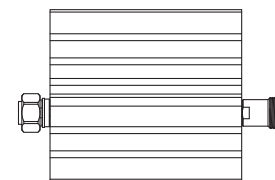
2B200W	2.5	SMA-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4B200W	4	SMA-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2N200W	2.5	N-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4N200W	4	N-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2D200W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4D200W	4	7/16 DIN-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2T200W	2.5	TNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4T200W	4	TNC-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40



Type N

300 Watt Attenuators, Convection Cooled

2B300W	2.5	SMA-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4B300W	4	SMA-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2N300W	2.5	N-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4N300W	4	N-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2D300W	2.5	7/16 DIN-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4D300W	4	7/16 DIN-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40
2T300W	2.5	TNC-M/F, M/M, F/F	1.25:1	3,6,10,20,30,40
4T300W	4	TNC-M/F, M/M, F/F	1.50:1	3,6,10,20,30,40

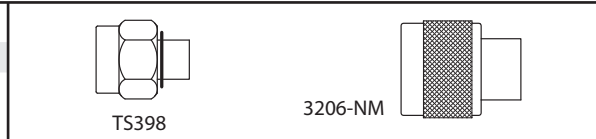


7/16 DIN-M/F

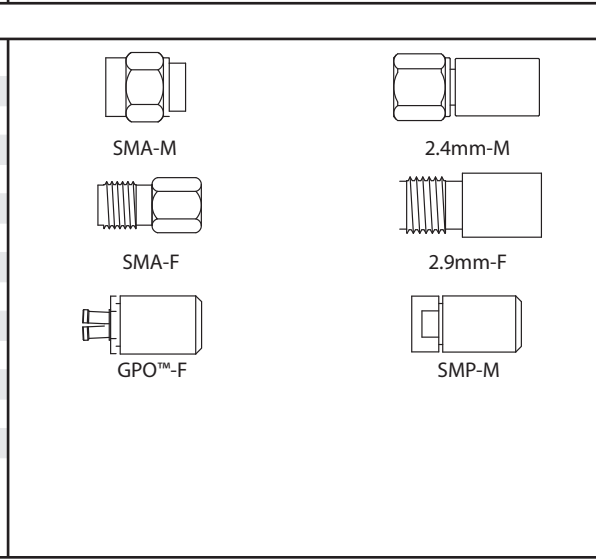
Termination Reference Guide

MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR
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1 and 2 Watt Ultra Low Cost Terminations			
TS398M	1W)	6	SMA-M
3202-NM		2.5	N-M
3206-NM		6	N-M

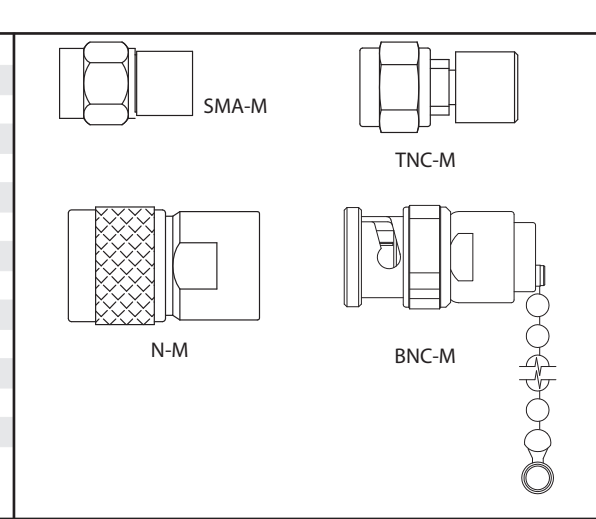


0.5 Watt and 1 Watt Terminations			
TS060*		6	SMA-M, SMA-F
3016B*		18	SMA-M
TS180*		18	SMA-M, SMA-F
TS260*		26.5	SMA-M, SMA-F
3206-SMARP		6	SMA-M Reverse Polarity
TP180M	(1.0W)	18	SMP-M
TMP400	(0.5W)	40	SMPM-F
TMP500	(0.5W)	50	SMPM-F
TG180	(1.0W)	18	GPO-M, GPO-F
TS400*	(1.0W)	40	2.9mm-M, 2.9mm-F
TS400H*	(1.0W)	40	2.9mm-M, 2.9mm-F
TE400*	(0.5W)	40	2.4mm-M, 2.4mm-F
TE500*	(0.5W)	50	2.4mm-M, 2.4mm-F
TE500*1W	(1.0W)	50	2.4mm-M, 2.4mm-F

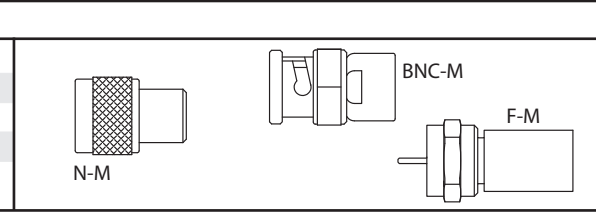


*With chain, add suffix "C" Note: G and P models are full detent, GL and PL models are limited detent
Note: GPO™ and SMP male connectors are available in full and limited detent.

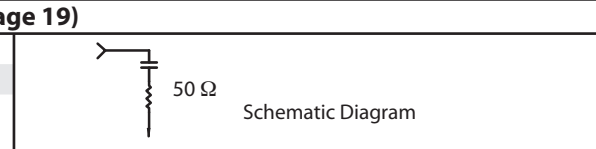
2 Watt Terminations			
3029*		4	BNC-F
3038*		4	BNC-M
3030*		4	BNC-M
3004-067*		6	SMA-M, SMA-F
3004*		18	SMA-M, SMA-F
TN060*		6	N-M, N-F
TN180*		18	N-M, N-F
3018*		18	N-M, N-F Brass
3070*		18	N-M, N-F Brass
3101*, 3102*		18	N-M, N-F
TT060*		6	TNC-M, TNC-F
3069*		12.4	TNC-M, TNC-F Brass
TT180*		18	TNC-M, TNC-F
TE500M-2W		50	2.4mm-M



75 Ohm 1 and 2 Watt Terminations			
3038/75	(1W)	1	BNC-M
TF030M		3	F-M
TF030F		3	F-F
TN040/75		4	N-M, N-F

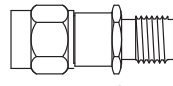
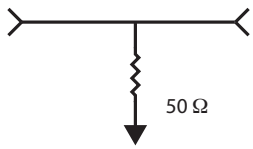


1 Watt DC Blocking Terminations (Also See DC Block Section, page 19)			
8530S	30 kHz-18	SMA-M, SMA-F	INNER
8530PF	30 kHz-23	SMP-F	INNER
8541-MPF	100 kHz-50	SMPM-F	INNER



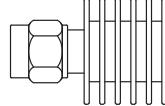
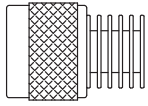
Termination Reference Guide

MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR
2 Watt Terminations, Feedthru			
3032	0.5	BNC-M/F	1.25:1
3008, 3008H	1	SMA-M/F	1.25:1

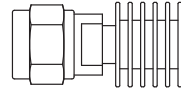
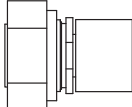



SMA-M/F with Hex 50 Ω

MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR
5 Watt Terminations, Convection Cooled			
TS060-5W	6	SMA-M, SMA-F	1.15:1
3073	12.4	SMA-M, SMA-F	1.20:1
TS180-5W	18	SMA-M, SMA-F	1.25:1
TN060-5W	6	N-M, N-F	1.25:1
3073N	12.4	N-M, N-F	1.20:1
TN120-5W	12.4	N-M, N-F	1.20:1
TN180-5W	18	N-M, N-F	1.25:1
3018-5W	18	N-M Brass	1.30:1
TD020-5W	2.5	7/16 DIN-M, 7/16 DIN-F	1.25:1
TD075-5W	7.5	7/16 DIN-M, 7/16 DIN-F	1.45:1
3073D	7.5	7/16 DIN-M, 7/16 DIN-F	1.45:1
TT060-5W	6	TNC-M, TNC-F	1.15:1
3073T	12.4	TNC-M, TNC-F	1.20:1
TT180-5W	18	TNC-M, TNC-F	1.25:1
TMD060-5W	6	4.3/10-M, 4.3/10-F	1.25:1

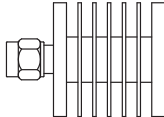
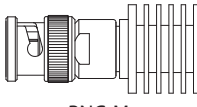



SMA-M N-M

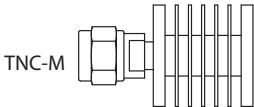



TNC-M 7/16 DIN-M

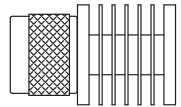
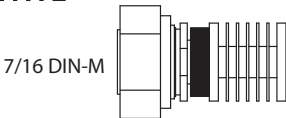
MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR
10 Watt Terminations, Convection Cooled			
TB040-10W	4	BNC-M, BNC-F	1.25:1
TS060-10W	6	SMA-M, SMA-F	1.20:1
TS180-10W	18	SMA-M, SMA-F	1.40:1
3074	12.4	SMA-M, SMA-F	1.20:1
3093	12.4	N-M, N-F	1.25:1
TN060-10W	6	N-M, N-F	1.25:1
TN180-10W	18	N-M, N-F	1.35:1
TD075-10W	7.5	7/16 DIN-M, 7/16 DIN-F	1.30:1
TT060-10W	6	TNC-M, TNC-F	1.20:1
TT180-10W	18	TNC-M, TNC-F	1.40:1
TMD060-10W	6	4.3/10-M, 4.3/10-F	1.25:1

SMA-M BNC-M

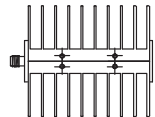
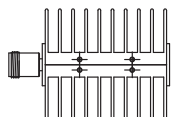


TNC-M

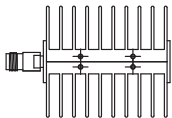
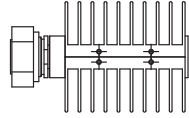



N-M 7/16 DIN-M

MODEL NO.	FREQ. (GHz)	CONNECTOR	VSWR
25 Watt Terminations, Convection Cooled			
TS060-25W	6	SMA-M, SMA-F	1.20:1
TS180-25W	18	SMA-M, SMA-F	1.40:1
TN060-25W	6	N-M, N-F	1.20:1
TN180-25W	18	N-M, N-F	1.40:1
TD020-25W	2.5	7/16 DIN-M, 7/16 DIN-F	1.20:1
TD075-25W	7.5	7/16 DIN-M, 7/16 DIN-F	1.30:1
3112-XX	18	7/16 DIN, SMA, TNC, N	1.50:1
TT060-25W	6	TNC-M, TNC-F	1.20:1
TT180-25W	18	TNC-M, TNC-F	1.40:1
TMD060-25W	6	4.3/10-M, 4.3/10-F	1.30:1

SMA-F N-F

TNC-F 7/16 DIN-M

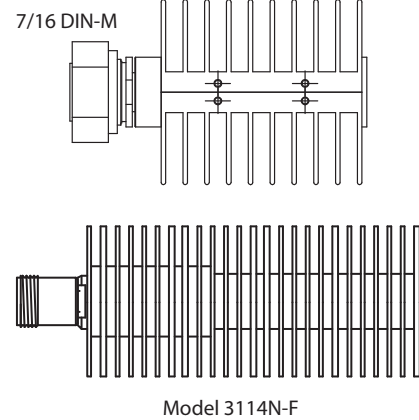
MODEL NO. FREQ. (GHz) CONNECTOR VSWR

40 Watt Termination, Convection Cooled

3114SX	12.4	SMA-M, SMA-F	1.35:1
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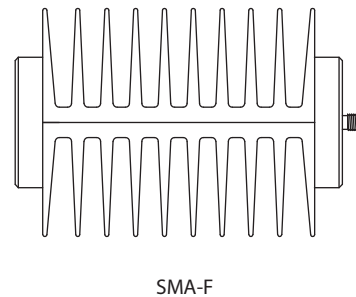
50 Watt Terminations, Convection Cooled

TS060-50W	6	SMA-M, SMA-F	1.25:1
TS180-50W	18	SMA-M, SMA-F	1.45:1
TN060-50W	6	N-M, N-F	1.25:1
3114NX	12.4	N-M, N-F	1.35:1
TN180-50W	18	N-M, N-F	1.45:1
TB040-50W	4	BNC-M, BNC-F	1.25:1
3114BX	4	BNC-M, BNC-F	1.25:1
TD020-50W	2.5	7/16 DIN-M, 7/16 DIN-F	1.25:1
TD075-50W	7.5	7/16 DIN-M, 7/16 DIN-F	1.45:1
3114DX	7.5	7/16 DIN-M, 7/16-DIN-F	1.25:1
TT060-50W	6	TNC-M, TNC-F	1.25:1
TT180-50W	18	TNC-M, TNC-F	1.45:1
3114TX	12.4	TNC-M, TNC-F	1.35:1
TMD060-50W	6	4.3/10-M, 4.3/10-F	1.40:1



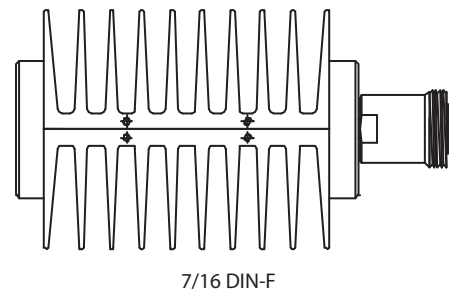
100 Watt Terminations, Convection Cooled

TS020-100W	2.5	SMA-M, SMA-F	1.30:1
TS060-100W	6	SMA-M, SMA-F	1.40:1
TN020-100W	.5	N-M, N-F	1.30:1
TN060-100W	6	N-M, N-F	1.40:1
TB040-100W	4	BNC -M, BNC-F	1.45:1
TT020-100W	2.5	TNC -M, TNC-F	1.30:1
TT060-100W	6	TNC -M, TNC-F	1.40:1
TD020-100W	2.5	7/16 DIN-M, 7/16 DIN-F	1.35:1
TD060-100W	6	7/16 DIN-M, 7/16 DIN-F	1.45:1
TMD060-100W	6	4.3/10-M, 4.3/10-F	1.40:1



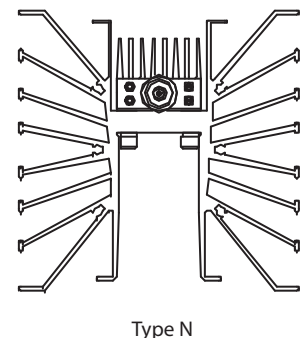
150 Watt Terminations, Convection Cooled

TS020-150W	2.5	SMA-M, SMA-F	1.25:1
TS040-150W	4	MA-M, SMA-F	1.35:1
TN020-150W	2.5	N-M, N-F	1.25:1
TN040-150W	4	N-M, N-F	1.35:1
TT020-150W	2.5	TNC -M, TNC-F	1.25:1
TT040-150W	4	TNC -M, TNC-F	1.35:1
TD020-150W	2.5	7/16 DIN-M, 7/16 DIN-F	1.30:1
TD040-150W	4	7/16 DIN-M, 7/16 DIN-F	1.40:1



300 Watt Terminations, Convection Cooled

TS020-300W	2.5	SMA-M, SMA-F	1.30:1
TS040-300W	4	SMA-M, SMA-F	1.35:1
TN020-300W	2.5	N-M, N-F	1.30:1
TN040-300W	4	N-M, N-F	1.35:1
TT020-300W	2.5	TNC-M, TNC-F	1.25:1
TT040-300W	4	TNC-M, TNC-F	1.35:1
TD020-300W	2.5	7/16 DIN-M, 7/16 DIN-F	1.35:1
TD040-300W	4	7/16 DIN-M, 7/16 DIN-F	1.35:1



SERIES PCX HIGH POWER COAXIAL TERMINATIONS, DC TO 6 GHz

The PCX Series of High Power Terminations are designed to dissipate RF power when mounted to a heat sink or chill plate. Power levels up to 250 Watts in 50 Ohm impedance are available in units with SMA and Type N male or female connectors. High stability thin film resistive elements on beryllium oxide substrates are used to insure stable VSWR performance over temperature and environmental conditions. Input power ratings are based on case temperature of 85°C maximum.

PERFORMANCE SPECIFICATIONS

Part Number	Input Power (Watts)	Frequency Range	Connector Type	VSWR Typical	Outline
PCX050-F-50 PCX050-M-50	50	DC - 6 GHz	SMA Female SMA Male	DC - 3 GHz: 1.25:1 3 - 6 GHz: 1.35:1	A
PCX050-F-100 PCX050-M-100	100	DC - 3 GHz	SMA Female SMA Male	DC - 3 GHz: 1.25:1	A
PCX050-F-150 PCX100-F-150	150	DC - 2 GHz	SMA Female N Female	DC - 1 GHz: 1.15:1 1 - 2 GHz: 1.40:1	B
PCX100-F-250	250	DC-800 MHz	N Female	400 - 800 MHz: 1.30:1	B

SMA Connectors are Stainless Steel Passivated per MIL-C-39012, Type N Connectors are Nickel Plated Brass per MIL-C-39012
Housings are Copper, Nickel Plated Brass per MIL QQ-N-290

PHYSICAL DIMENSIONS

OUTLINE A (Shown with SMA)

MODEL	"X"	"Y"	"Z"
PCX050-F-50	.375 [9.53]	.560 [14.22]	.260 [6.60]
PCX050-M-50	.507 [12.88]	.560 [14.22]	.260 [6.60]
PCX050-F-100	.375 [9.53]	.560 [14.22]	.260 [6.60]
PCX050-M-100	.507 [12.88]	.560 [14.22]	.260 [6.60]

SMA 50 & 100 WATTS

OUTLINE B (Shown with TYPE N)

MODEL	"X"	"Y"
PCX050-F-150	.375 [9.53]	.515 [13.08]
PCX100-F-150, 250	.736 [18.69]	.508 [12.9]

SMA OR N CONNECTORS
150 & 250 WATTS

KEY: Inches [Millimeters] .XX ±.03 .XXX ±.010 [X ±0.8 .XX ±0.25]

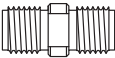
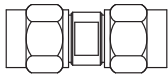
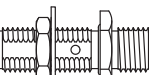
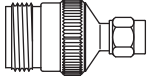
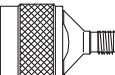
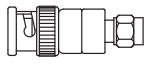
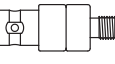
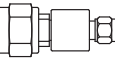
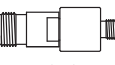
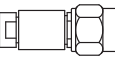
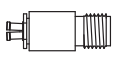

Adapter Reference Guide

Connector	F	7/16	BNC	N	TNC	7mm	SMA	3.5mm	2.9mm	GPO™/SMP	2.4mm	1.85mm
F	①		①②	①②	②		②					
7/16												
BNC	①②											
N	①②	③					③					
TNC	②											
7mm												
SMA	②			③			③					
3.5mm												
2.9mm												
GPO™/SMP												
2.4mm												
1.85mm												

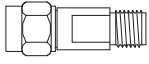
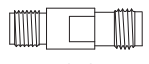
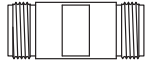
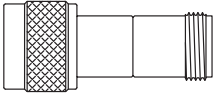
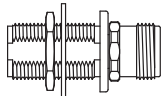
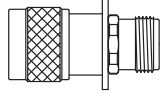
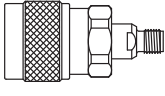
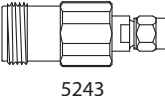
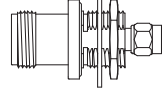
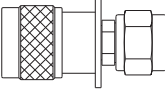
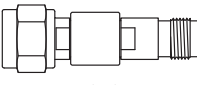
Highlighted squares denote available connector configurations

- ① Adapter, 75 Ω both sides (page 16)
- ② Impedance Matching Pad where F connector only is 75 Ω (page 5)
- ③ Also available with Quick Connect Option

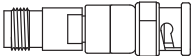
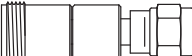

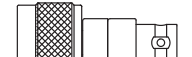


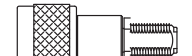



Adapter Reference Guide

CONNECTORS	MODEL NO.	FREQ. (GHz)	VSWR	DESCRIPTION	
SMA In Series Adapters					
F/F M/M M/F	5010, 5020, 5030	18	1.20:1		
M/F	5030Q	18	1.25:1	Quick Connect	5010
F/F	5313	18	1.25:1	Flange Mount, 0.5" Sq	
M/F M/M F/F	5311A, 5312A, 5313A	18	1.20:1	Flange Mount, 0.5" Sq.	
F/F with O-Ring Seal	5211	18	1.15:1	Bulkhead Feedthru	5020
F/F (Au is Gold Plated)	5205, 5205/Au	18	1.15:1	Bulkhead Feedthru	
F/F M/M M/F	5163, 5164, 5165	26.5	1.20:1		
F/F with O-Ring Seal	5218	26.5	1.30:1	Bulkhead Feedthru	
SMA Between Series Adapters					
SMA-M N-M	5056	18	1.25:1	Short Profile	5218
SMA-M N-F	5057	18	1.25:1	Short Profile	
SMA-F N-F	5058	18	1.25:1	Short Profile	
SMA-F N-M	5059	18	1.25:1	Short Profile	
SMA-M N-M	5106	18	1.12:1	Precision	5062
SMA-M N-F	5107	18	1.12:1	Precision	
SMA-F N-M	5108	18	1.12:1	Precision	
SMA-F N-F	5109	18	1.12:1	Precision	5059
SMA-M N-F	5057Q	18	1.30:1	Quick Connect	
SMA-M N-M	5306	18	1.12:1	Flange Mount 1" Sq.	
SMA-M N-F	5307	18	1.12:1	Flange Mount 1" Sq.	5011
SMA-F N-M	5308	18	1.12:1	Flange Mount 1" Sq.	
SMA-F N-F	5309	18	1.12:1	Flange Mount 1" Sq.	
SMA-F N-F	5209	18	1.20:1	Bulkhead Feedthru	5014
SMA-M N-F	5210	18	1.20:1	Bulkhead Feedthru	
SMA-F N-F w/ O-Ring Seal	5212	18	1.20:1	Bulkhead Feedthru	
SMA-M N-F w/ O-Ring Seal	5213	18	1.20:1	Bulkhead Feedthru	5015
SMA-M BNC-M	5011	8	1.25:1		
SMA-M BNC-F	5012	8	1.25:1		
SMA-F BNC-M	5013	8	1.25:1		5018
SMA-F BNC-F	5014	8	1.25:1		
SMA-M TNC-M	5015	18	1.25:1		
SMA-M TNC-F	5016	18	1.25:1		5019
SMA-F TNC-M	5017	18	1.25:1		
SMA-F TNC-F	5018	18	1.25:1		
SMA-M GPO-M	5190G	18	1.20:1	Full Detent	5190
SMA-M GPO-M	5190GL	18	1.20:1	Limited Detent	
SMA-F GPO-M	5191G	18	1.20:1	Full Detent	
SMA-F GPO-M	5191GL	18	1.20:1	Limited Detent	5193
SMA-M GPO-F	5192G	18	1.20:1		
SMA-F GPO-F	5193G	18	1.20:1		
SMA-M SMP-M	5190P	18	1.20:1	Full Detent	
SMA-M SMP-M	5190PL	18	1.20:1	Limited Detent	
SMA-F SMP-M	5191P	18	1.20:1	Full Detent	
SMA-F SMP-M	5191PL	18	1.20:1	Limited Detent	

Adapter Reference Guide

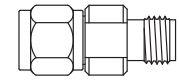
CONNECTORS			MODEL NO.	FREQ. (GHz)	VSWR	DESCRIPTION	
SMA Between Series Adapters, Continued							
SMA-M	SMP-F		5192P	18	1.20:1		
SMA-F	SMP-F		5193P	18	1.20:1		
SMA-M	3.5mm-M		5246	18	1.25:1		5247
SMA-M	3.5mm-F		5247	18	1.25:1		
SMA-F	3.5mm-M		5248	18	1.25:1		
SMA-F	3.5mm-F		5249	18	1.25:1		5253
SMA-F	1.85mm-M		5250	18	1.30:1		
SMA-M	1.85mm-M		5251	18	1.30:1		
SMA-M	1.85mm-F		5252	18	1.30:1		
SMA-F	1.85mm-F		5253	18	1.30:1		5003
TYPE N In Series							
F/F	M/M	M/F	5003, 5004, 5005	18	1.25:1		
F/F	M/M	M/F	5103, 5104, 5105	18	1.12:1	Precision	
F/F			5208	18	1.15:1	Bulkhead Feedthru	
F/F with O-Ring Seal			5215	18	1.15:1	Bulkhead Feedthru	
F/F	M/M	M/F	5303, 5304, 5305	18	1.12:1	Flange Mount 1" sq.	
TYPE N Between Series							
N-M	TNC-M		5326	18	1.12:1	Flange Mount 1" sq.	
N-M	TNC-F		5327	18	1.12:1	Flange Mount 1" sq.	
N-F	TNC-M		5328	18	1.12:1	Flange Mount 1" sq.	
N-F	TNC-F		5329	18	1.12:1	Flange Mount 1" sq.	
N-M	BNC-M		5330	8	1.20:1	Flange Mount 1" sq.	
N-M	BNC-F		5331	8	1.20:1	Flange Mount 1" sq.	
N-F	BNC-M		5332	8	1.20:1	Flange Mount 1" sq.	
N-F	BNC-F		5333	8	1.20:1	Flange Mount 1" sq.	
N-F	2.4mm-M		5155	18	1.15:1		
N-F	2.4mm-F		5156	18	1.15:1		
N-M	2.4mm-M		5157	18	1.15:1		5305
N-M	2.4mm-F		5158	18	1.15:1		
N-M	2.9mm-M		5166	18	1.15:1		
N-F	2.9mm-F		5167	18	1.15:1		
N-M	2.9mm-F		5168	18	1.15:1		
N-F	2.9mm-M		5169	18	1.15:1		
N-M	3.5mm-M		5144	18	1.12:1		
N-M	3.5mm-F		5145	18	1.12:1		5145
N-F	3.5mm-M		5146	18	1.12:1		
N-F	3.5mm-F		5147	18	1.12:1		
N-M	1.85mm-M		5242	18	1.25:1		
N-F	1.85mm-M		5243	18	1.25:1		5243
N-M	1.85mm-F		5244	18	1.25:1		
N-F	1.85mm-F		5245	18	1.25:1		
N-M	SMA-F		5206	18	1.30:1	Bulkhead Feedthru	
N-F	SMA-F		5203	18	1.12:1	Bulkhead Feedthru	
N-F	SMA-M		5207	18	1.12:1	Bulkhead Feedthru	
N-F	SMA-M w/ O-Ring		5216	18	1.12:1	Bulkhead Feedthru	
N-F	SMA-F w/ O-Ring		5217	18	1.12:1	Bulkhead Feedthru	5207
TNC In Series							
M/F	F/F	M/M	5040, 5041, 5042	18	1.20:1		
							5326
							
							5040

Adapter Reference Guide

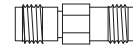
CONNECTORS			MODEL NO.	FREQ. (GHz)	VSWR	DESCRIPTION	
TNC Between Series							
TNC-F	SMA-F		5241	18.5	1.30:1	Flange Mount	
TNC-M	BNC-M		5034	8	1.30:1		5035
TNC-F	BNC-M		5035	8	1.30:1		
TNC-M	BNC-F		5036	8	1.30:1		
TNC-F	BNC-F		5037	8	1.30:1		
TNC-M	N-F		5026	18	1.25:1		5128
TNC-F	N-F		5027	18	1.25:1		
TNC-M	N-M		5028	18	1.25:1		
TNC-F	N-M		5029	18	1.25:1		
TNC-M	N-M		5126	18	1.12:1	Precision	
TNC-F	N-M		5127	18	1.12:1	Precision	
TNC-M	N-F		5128	18	1.12:1	Precision	5031
TNC-F	N-F		5129	18	1.12:1	Precision	
BNC In Series							
M/F	F/F	M/M	5031, 5032, 5033	8	1.25:1		
M/F	F/F	M/M	5087, 5088, 5089	3	1.30:1	75 Ω	
BNC Between Series							
BNC-M	N-M		5021	8	1.30:1		5022
BNC-F	N-M		5022	8	1.30:1		
BNC-M	N-F		5023	8	1.30:1		
BNC-F	N-F		5024	8	1.30:1		
BNC-M	N-M		5130	8	1.15:1	Precision	
BNC-F	N-M		5131	8	1.15:1	Precision	5023
BNC-M	N-F		5132	8	1.15:1	Precision	
BNC-F	N-F		5133	8	1.15:1	Precision	
TYPE F In Series							
M/F	M/M	F/F	5230, 5231, 5232	3	1.30:1	75 Ω	
TYPE F Between Series							
F-M	N-M		5195	3	1.30:1	75 Ω Both Sides	5196
F-M	N-F		5196	3	1.30:1	75 Ω Both Sides	
F-F	N-M		5197	3	1.30:1	75 Ω Both Sides	
F-F	N-F		5198	3	1.30:1	75 Ω Both Sides	
F-M	BNC-M		5070	3	1.30:1	75 Ω Both Sides	5197
F-M	BNC-F		5071	3	1.30:1	75 Ω Both Sides	
F-F	BNC-M		5072	3	1.30:1	75 Ω Both Sides	
F-F	BNC-F		5073	3	1.30:1	75 Ω Both Sides	
7/16 DIN In Series							
F/F	M/M	M/F	5701, 5702, 5703	7.5	1.35:1		
7/16 DIN Between Series							
7/16 DIN-F	N-F		5704	7.5	1.35:1		5705
7/16 DIN-F	N-M		5705	7.5	1.35:1		
7/16 DIN-M	N-F		5706	7.5	1.35:1		
7/16 DIN-M	N-M		5707	7.5	1.35:1		
7/16 DIN-F	TNC-F		5708	7.5	1.35:1		
7/16 DIN-F	TNC-M		5709	7.5	1.35:1		5709
7/16 DIN-M	TNC-F		5710	7.5	1.35:1		
7/16 DIN-M	TNC-M		5711	7.5	1.35:1		
1.85mm In Series							
F/F	M/M	M/F	5173, 5174, 5175	65	1.40:1		
M/F			5292	65	1.50:1	Bulkhead Feedthru	
F/F with O-Ring Seal			5289	65	1.40:1	Bulkhead Feedthru	5150
F/F without O-Ring Seal			5290	65	1.40:1	Bulkhead Feedthru	
2.4mm In Series							
F/F	M/M	M/F	5148, 5149, 5150	50	1.30:1		
F/F with O-Ring Seal			5221	50	1.35:1	Bulkhead Feedthru	

Adapter Reference Guide

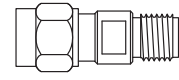
CONNECTORS	MODEL NO.	FREQ. (GHz)	VSWR	DESCRIPTION
2.4mm Between Series				
2.4mm-M SMA-M	5080	26.5	1.20:1	
2.4mm-F SMA-M	5081	26.5	1.20:1	
2.4mm-M SMA-F	5082	26.5	1.20:1	
2.4mm-F SMA-F	5083	26.5	1.20:1	
2.4mm-M 3.5mm-M	5065	34	1.25:1	
2.4mm-M 3.5mm-F	5066	34	1.25:1	
2.4mm-F 3.5mm-M	5067	34	1.25:1	
2.4mm-F 3.5mm-F	5068	34	1.25:1	
2.4mm-F 2.9mm-F	5151	40	1.30:1	
2.4mm-F 2.9mm-M	5152	40	1.30:1	
2.4mm-M 2.9mm-F	5153	40	1.30:1	
2.4mm-M 2.9mm-M	5154	40	1.30:1	
2.4mm-M 1.85mm-M	5075	50	1.35:1	
2.4mm-M 1.85mm-F	5076	50	1.35:1	
2.4mm-F 1.85mm-M	5077	50	1.35:1	
2.4mm-F 1.85mm-F	5078	50	1.35:1	
2.9mm In Series				
F/F M/M M/F	5160, 5161, 5162	26.5	1.15:1	
F/F	5338	26.5	1.25:1	Flange Mount, 0.5" sq.
F/F M/M M/F	5170, 5171, 5172	40	1.30:1	
F/F with O-Ring Seal	5214	40	1.30:1	Bulkhead Feedthru
M/F	5223	40	1.35:1	Bulkhead Feedthru
F/F	5344	40	1.35:1	Flange Mount, 0.5" sq.
2.9mm Between Series				
2.9mm-M SMA-M	5262	26.5	1.25:1	
2.9mm-M SMA-F	5263	26.5	1.25:1	
2.9mm-F SMA-M	5264	26.5	1.25:1	
2.9mm-F SMA-F	5265	26.5	1.25:1	
2.9mm-F 3.5mm-F	5266	34	1.25:1	
2.9mm-F 3.5mm-M	5267	34	1.25:1	
2.9mm-M 3.5mm-F	5268	34	1.25:1	
2.9mm-M 3.5mm-M	5269	34	1.25:1	
2.9mm-M 1.85mm-M	5258	40	1.40:1	
2.9mm-M 1.85mm-F	5259	40	1.40:1	
2.9mm-F 1.85mm-M	5260	40	1.40:1	
2.9mm-F 1.85mm-F	5261	40	1.40:1	
2.9mm-F 2.4mm-F w/ O-Ring	5237	40	1.35:1	Bulkhead Feedthru
3.5mm In Series				
M/F M/M F/F	5084, 5085, 5086	34	1.25:1	
3.5mm Between Series				
3.5mm-F 1.85mm-M	5254	34	1.30:1	
3.5mm-M 1.85mm-F	5255	34	1.30:1	
3.5mm-F 1.85mm-F	5256	34	1.30:1	
3.5mm-M 1.85mm-M	5257	34	1.30:1	
7mm Between Series				
7mm SMA-M	5110	18	1.12:1	
7mm SMA-F	5111	18	1.12:1	
7mm N-M	5112	18	1.12:1	
7mm N-F	5113	18	1.12:1	
7mm TNC-M	5114	18	1.12:1	
7mm TNC-F	5115	18	1.12:1	
7mm 3.5mm-M	5140	18	1.08:1	
7mm 3.5mm-F	5141	18	1.08:1	
7mm 2.4mm-M	5181	18	1.10:1	
7mm 2.4mm-F	5182	18	1.10:1	
7mm 2.9mm-M	5183	18	1.10:1	
7mm 2.9mm-F	5184	18	1.10:1	
7mm SMA-M	5314	18	1.12:1	Flange Mount 1" sq.
7mm SMA-F	5315	18	1.12:1	Flange Mount 1" sq.



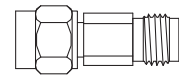
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5078



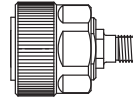
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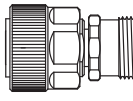
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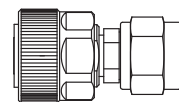
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5111



5113

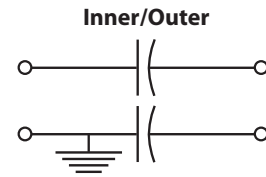
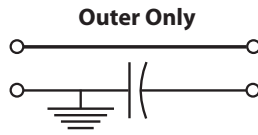
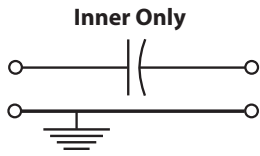


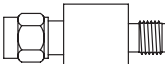
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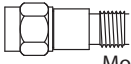
DC Block Reference Guide

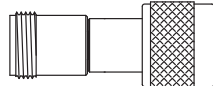
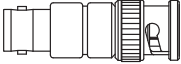
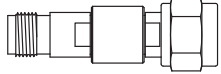
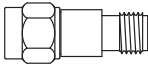
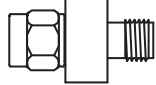

Inmet inner DC blocks have a capacitor in-series with the center conductor which prevents the flow of audio and direct current (DC) frequencies while offering minimum interference to RF signals up to 50GHz. Similarly outer DC blocks have a capacitor in-series with the outer conductor and the inner/outer types have capacitors in-series with both inner and outer conductors.

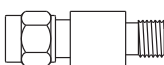
Insulation material on the outer DC blocks is a PEEK shell. Applications include ground loop elimination, signal source modulation leakage suppression, system signal-to-noise ratio improvement, test setup isolation and other situations where undesired DC or audio current flows in the system.



MODEL NO.	FREQ. (GHz)	CONNECTOR	VOLTAGE	BLOCK TYPE	
DC Blocks, SMA					
8037	0.01-18	SMA-M/F	200	INNER	 Models 8038 and 8039
8038	0.01-18	SMA-M/F	200	OUTER	
8039	0.01-18	SMA-M/F	200	INNER-OUTER	

DC Blocks, SMA Microminiature					
8055	0.01-18	SMA-M/F	200	INNER	 Model 8055
8055H	0.01-18	SMA-M/F	200	INNER	

DC Blocks					
8046	0.01-18	N-M/F	200	INNER	 Model 8046  Model 8080  Model 8070  Model 8060A  Model 8142  Model 8179
8047	0.01-18	N-M/F	200	OUTER	
8048	0.01-18	N-M/F	200	INNER/OUTER	
8080	0.01-4	BNC-M/F	200	INNER	
8081	0.01-4	BNC-M/F	200	OUTER	
8082	0.01-4	BNC-M/F	200	INNER/OUTER	
8070	0.01-18	TNC-M/F	200	INNER	
8071	0.01-18	TNC-M/F	200	OUTER	
8072	0.01-18	TNC-M/F	200	INNER/OUTER	
8060A	7kHz-26.5	2.9mm-M/F	75	INNER	
8061	0.01-26.5	2.9mm-M/F	200	OUTER	
8062A	0.01-26.5	2.9mm-M/F	200	INNER/OUTER	
8141A	0.01-40	2.9mm-M/F	200	INNER	
8142	0.01-40	2.9mm-M/F	200	OUTER	
8177	0.01-50	2.4mm-M/F	75	INNER	
8178	0.01-50	2.4mm-M/F	75	OUTER	
8179	0.01-50	2.4mm-M/F	75	INNER/OUTER	

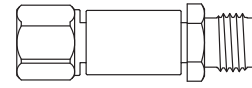
DC Blocks, High Voltage					
8529A	0.1-4	SMA-M/F	900	INNER	 Model 8532-SI-HV
8532-SI-HV	0.1-18	SMA-M/F	950	INNER	
8532-NI-HV	0.1-18	N-M/F	950	INNER	
8532-TI-HV	0.1-18	TNC-M/F	950	INNER	

MODEL NO. FREQ. (GHz) CONNECTOR VOLTAGE BLOCK TYPE

DC Blocks, Broadband

8535	7 kHz-23	SMA-M/F	100	INNER
8535G, 8535GL	7 kHz-26.5	GPO-M/F	50	INNER
8535P, 8535PL	16kHz-26.5	SMP-M/F	50	INNER
8535K, 8535KH	7 kHz-40	2.9mm-M/F	35	INNER
8535E	7 kHz-50	2.4mm-M/F	35	INNER
8535MP	16kHz-50	SMPM-M/F	10	INNER

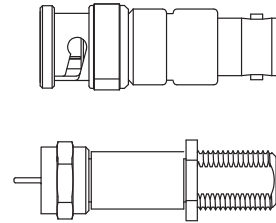
Note: GPO™ and SMP male connectors are available in full and limited detent.



Model 8535E

75 Ohm DC Blocks, In Series

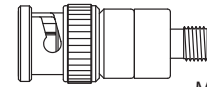
8174	0.01-2	F-M/F	200	INNER
8175	0.01-2	F-M/F	200	OUTER
8176	0.01-2	F-M/F	200	INNER-OUTER
8184	0.1-4	N-M/F	200	INNER
8185	0.1-4	N-M/F	200	OUTER
8186	0.1-4	N-M/F	200	INNER/OUTER
8181	0.1-4	BNC-M/F	200	INNER
8182	0.1-4	BNC-M/F	200	OUTER
8183	0.1-4	BNC-M/F	200	INNER/OUTER



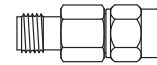
Model 8181
Model 8174

DC Blocks, Between Series

8313	0.01-4	BNC-M/SMA-F	100	INNER
8301	0.01-18	N-M/SMA-M	200	INNER
8302	0.01-18	N-M/SMA-F	200	INNER
8303	0.01-18	N-F/SMA-M	200	INNER
8304	0.01-18	N-F/SMA-F	200	INNER
8306	0.01-40	2.4mm-M/2.9mm-F	200	INNER
8309	0.01-40	2.4mm-F/2.9mm-M	200	INNER
8180	0.01-40	2.4mm-F/2.9mm-F	200	INNER



Model 8313

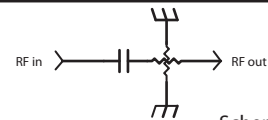


Model 8306

MODEL NO. FREQ. (GHz) CONNECTOR VSWR ATTN (dB)

2 Watt DC Blocking Attenuators (Also See Attenuator Section, page 6)

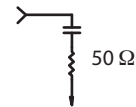
8516S-XX	0.01-2	SMA-M/F	1.15:1	0-10,12,20
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Schematic Diagram

1 Watt DC Blocking Terminations (Also see Termination Section, Page 9)

8530S	30 kHz-18	SMA-M, SMA-F	100	INNER
8530N	30 kHz-18	N-M, N-F	100	INNER
8530PF	30 kHz-23	SMP-F	100	INNER
8541-MPF	100 kHz-50	SMPM-F	10	INNER



50 Ω
Schematic Diagram

Bias Tee Reference Guide

MODEL NO. FREQ. (GHz) CONN. CURRENT (Max.) VOLTAGE (Max.)

General Purpose and High Power Bias Tees

8800SMF1-02	.01-2.5	SMA-M/F	2.5A	100V
8800SMF1-04	.01-4	SMA-M/F	2.5A	100V
8800SMF1-06	.01-6	SMA-M/F	2.5A	100V
8800SMF1-09	.01-9	SMA-M/F	2.5A	100V
8800SMF1-12	.01-12.4	SMA-M/F	2.5A	100V
8800NMF1-02	.01-2.5	N-M/F	2.5A	100V
8800NMF1-04	.01-4	N-M/F	2.5A	100V
8800NMF1-06	.01-6	N-M/F	2.5A	100V
8800NMF1-09	.01-9	N-M/F	2.5A	100V
8800NMF1-12	.01-12.4	N-M/F	2.5A	100V
8800DMF1-02	.01-2.5	7/16-M/F	2.5A	100V
8800DMF1-04	.01-4	7/16 DIN-M/F	2.5A	100V
8800DMF1-06	.01-6	7/16-M/F	2.5A	100V
8800DMF1-07	.01-7.5	7/16-M/F	2.5A	100V

High Current Bias Tees

8820SMF1-02	.5-2.5	SMA-M/F	7.0A	100V
8820SMF1-06	1.0-6.0	SMA-M/F	7.0A	100V
8820NMF1-02	.5-2.5	N-M/F	7.0A	100V
8820DMF1-02	.5-2.5	7/16-DIN-M/F	7.0A	100V
8821DMF1-02*	.5-2.5	7/16-DIN-M/F	7.0A	100V

Pulsed Bias Tees

8860SMF2-02	.03-2.5	SMA-M/F	3.0A	100V
8860SMF2-06	.03-6	SMA-M/F	3.0A	100V
8860SMF2-09	.03-9	SMA-M/F	3.0A	100V
8860SMF2-12	.03-12	SMA-M/F	3.0A	100V

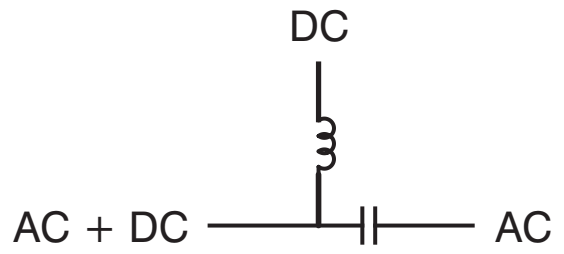
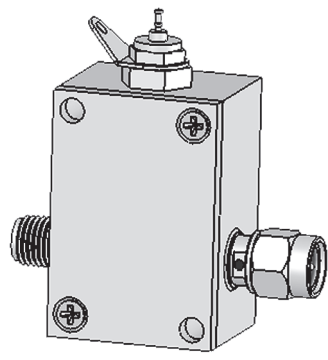
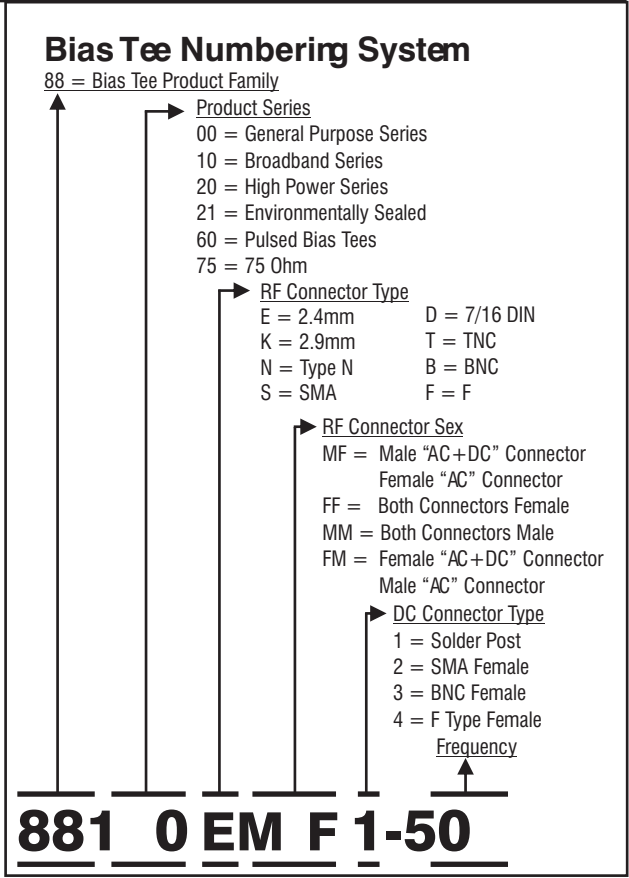
75 Ohm Bias Tees

8875NMF1-03	.01-3	N-M/F	2.5A	100V
8875FMF1-03	.01-3	F-M/F	2.5A	100V

Broadband Bias Tees

8810SMF2-12	50 kHz-12.4	SMA-M/F	750mA	25V
8810SMF2-18	50 kHz-18	SMA-M/F	750mA	25V
8810SMF2-26	50 kHz-26.5	SMA-M/F	750mA	25V
8810KMF2-26	50 kHz-26.5	2.9mm-M/F	750mA	25V
8810KMF2-40	50 kHz-40	2.9mm-M/F	150mA	25V
8812KMF2-26	12 kHz-26.5	2.9mm-M/F	150mA	16V
8812KMF2-40	12 kHz-40	2.9mm-M/F	150mA	16V
8810EMF2-50	50 kHz-50	2.4mm-M/F	150mA	25V

*Environmentally Sealed



Equalizer Overview

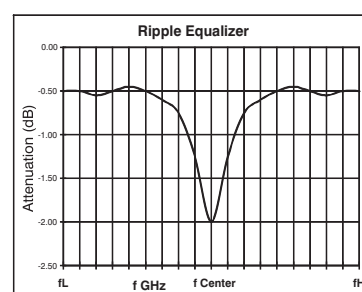
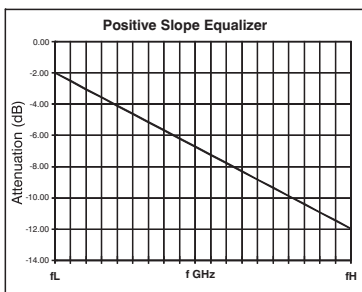
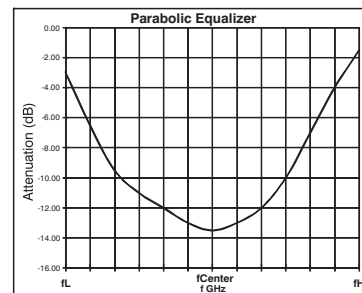
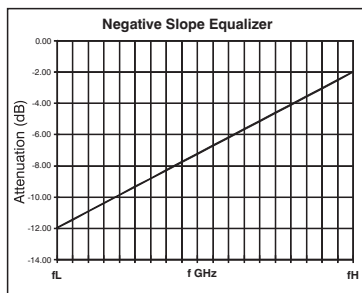
Inmet Gain Equalizers offer simple solutions to your system slope problems. Negative, Positive, Parabolic or Fine Grain Ripple slope units can be built to meet your desired performance parameters in the DC-40 GHz frequency range. Gain equalizers are passive microwave components that have an insertion loss characteristic that varies as a function of frequency. Inmet can supply both standard and custom-designed equalizers to meet the needs of commercial and military customers alike. We have engineering staff devoted exclusively to this product line and can supply designs that precisely define a preset loss characteristic (fixed equalizers) or with the ability to be loss-adjusted to custom-fit the particular variable requirements needed to field-tune a system. Each equalizer application has an insertion loss characteristic and package configuration that is unique. Equalizers can be custom made to meet the desired performance parameters and package configurations for each application.

NEGATIVE SLOPE equalizers are typically used for applications to offset the excessive loss of long cable runs at high frequencies. The loss characteristic of the equalizer decreases linearly with frequency.

POSITIVE SLOPE equalizers are typically used for applications to offset excessive loss of low frequencies where waveguide transmission characteristics require an equalizer that has increasing attenuation with frequency.

PARABOLIC equalizers are used in applications where a broadband traveling wave tube (TWT) or solid state amplifier (SSA) has maximum gain at or near the center of the frequency band. The characteristics of the equalizer require maximum attenuation at mid-band and decreasing attenuation at band edges.

RIPPLE equalizers are used to flatten gain ripple and spikes in a broadband application. The narrow band attenuation is adjustable in the bands where the ripple or spikes occur and flatten the response in these sub bands.

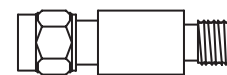


Standard Model Gain Equalizers

MODEL NO. FREQ. (GHz) Slope Connectors

Equalizers (A Selection of Standard Models)

EQ1100	.5-2 GHz	Negative Slope	SMA
EQ1101	.5-4 GHz	Negative Slope	SMA
EQ1102	2-8 GHz	Negative Slope	SMA
EQ1103	4-8 GHz	Negative Slope	SMA
EQ1251	2-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2301	.5-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2400	6-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2401	8-18 GHz	Negative Slope	SMA/TNC/Type N
EQ2402	2-18 GHz	Positive Slope	SMA/TNC/Type N

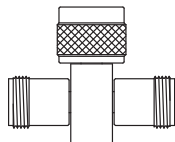


EQ1251-SMA Shown

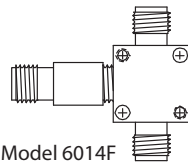
Power Dividers

Resistive Power Dividers

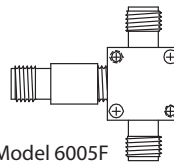
Model	Connector	Frequency	Insertion Loss Max.	Phase Balance Max.	Amplitude Balance Max.
6007-02	Type N	12.4 GHz	6.0dB	±2°	0.4 dB
6007	Type N	18.0 GHz	7.5dB	±3°	0.5 dB
6011-02	Type N	12.4 GHz	6.0dB	±2°	0.4 dB
6011	Type N	18.0 GHz	7.5 dB	±3°	0.5 dB
6019-02	TNC	12.4 GHz	6.0dB	±2°	0.4 dB
6019	TNC	18.0 GHz	7.5 dB	±3°	0.5 dB
6014-03	SMA	6.0 GHz	6.0dB	±2°	0.4 dB
6014F-03	SMA	6.0 GHz	6.0dB	±2°	0.4 dB
6014-01	SMA	12.4 GHz	6.0dB	±2°	0.4 dB
6014F-01	SMA	12.4 GHz	6.0dB	±2°	0.4 dB
6014-02	SMA	18.0 GHz	7.5 dB	±3°	0.5 dB
6014F-02	SMA	18.0 GHz	7.5 dB	±3°	0.5 dB
6005-01	2.9mm	12.4 GHz	6.0dB	±2°	0.4 dB
6005F-01	2.9mm	12.4 GHz	6.0dB	±2°	0.4 dB
6005-02	2.9mm	18.0 GHz	7.5dB	±3°	0.5 dB
6005F-02	2.9mm	18.0 GHz	7.5dB	±3°	0.5 dB
6005-03	2.9mm	26.5 GHz	8.5dB	±4°	1.0 dB



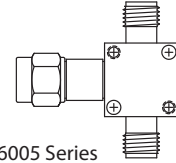
Model 6007



Model 6014F



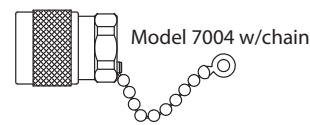
Model 6005F



6005 Series

Open Circuits (also available with chain, add suffix "C")

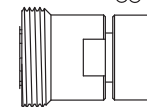
MODEL NO.	FREQ. (GHz)	CONNECTOR	
7004	18	N-M	
7005	18	N-F	
7006	18	SMA-M	
7007	18	SMA-F	
7013	7.5	7/16 DIN-F	
7014	7.5	7/16 DIN-M	
7015	3	F-M	75 Ohm
7016	3	F-F	75 Ohm



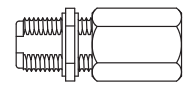
Model 7004 w/chain



Model 7006



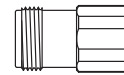
Model 7013



Model 7016

Short Circuits (also available with chain, add suffix "C")

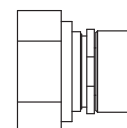
7001	18	N-M	
7002	18	N-F	
7008	18	SMA-M	
7009	18	SMA-F	
7011	7.5	7/16 DIN-F	
7012	7.5	7/16 DIN-M	
7017	3	F-M	75 Ohm
7018	3	F-F	75 Ohm



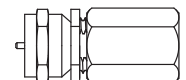
Model 7002



Model 7009



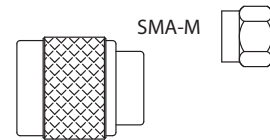
Model 7012



Model 7017

Dust and Moisture Sealing Caps (also available with chain, add suffix "C")

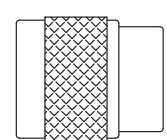
MODEL NO.	CONNECTOR
7602	TNC-M
7603	SMA-M
7604, 7605	N-M, N-F
7606	2.4mm-M
7607	SMP-F



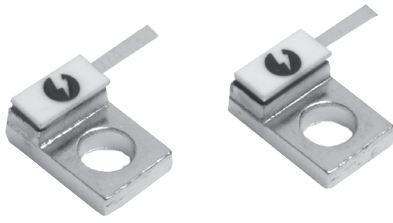
TNC-M



SMA-M



N-M



Flange Terminations Up to 1250 Watts, Up to 7 GHz

API Technologies offers a wide selection of Powerfilm flange terminations. These high-power resistive components are designed to safely dissipate power in RF circuits even under maximum power conditions. These components are often used in isolators, Wilkinson power dividers, or to terminate 3 dB stripline or microstrip hybrids. Powerfilm flange terminations with standard values of 50 and 100 ohm are available for frequencies up to 7 GHz and power levels up to 1250 Watts average. Flange sizes vary from 0.3"x 0.2" to 1.9"x 1.0". Other designs are available upon request.

Power (Watts)	Frequency (GHz)	Ceramic	Film	Width	Length	Height	Figure	Model
10	4.0	AlN	Thin	0.300	0.200	0.105	1	ANT300-10
10	2.0	BeO	Thin	0.300	0.200	0.105	1	PPT300-10-3
20	2.0	BeO	Thin	0.515	0.250	0.125	2	PPT515-20-3
25	7.0	AlN	Thin	0.300	0.200	0.105	1	7ANT300-25
25	4.0	AlN	Thin	0.300	0.200	0.105	1	ANT300-25
25	2.3	AlN	Thick	0.300	0.200	0.105	1	KAT300-25
30	6.0	BeO	Thin	0.515	0.250	0.105	2	PPT515-30-4
30	2.0	BeO	Thin	0.515	0.250	0.105	2	PPT515-30
40	4.0	BeO	Thin	0.800	0.230	0.105	3	PPT800-40-3
40	2.5	AlN	Thin	0.515	0.250	0.125	2	ANT515-40
50	2.0	BeO	Thin	0.300	0.200	0.105	1	PPT300-50
75	7.0	BeO	Thin	0.515	0.250	0.125	2	PPT515-75
80	2.0	BeO	Thin	0.515	0.250	0.125	2	PPT515-80
80	1.0	AlN	Thin	0.515	0.250	0.125	2	ANT515-80
100	3.0	AlN	Thin	0.800	0.230	0.105	3	ANT800-100
100	3.0	AlN	Thick	0.800	0.230	0.105	3	KAT800-100
100	3.0	AlN	Thick	0.975	0.250	0.105	3	KAT975-100
100	2.0	BeO	Thin	0.800	0.230	0.105	3	PPT800-100A
125	3.0	AlN	Thick	0.800	0.230	0.105	3	KAT800-125
150	4.0	AlN	Thin	0.800	0.230	0.105	3	ANT800-150

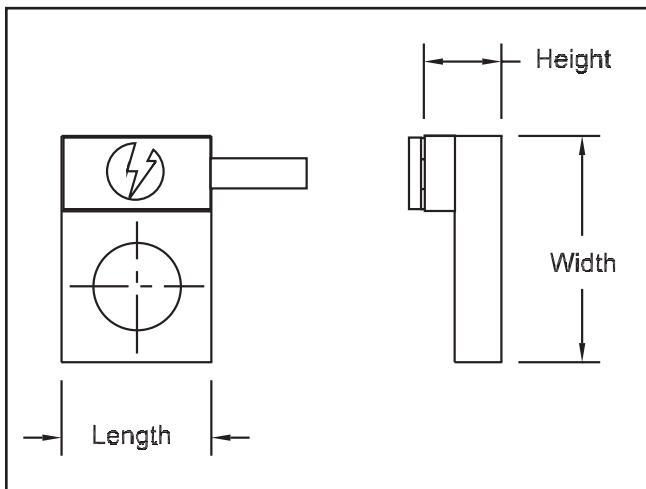


Figure 1

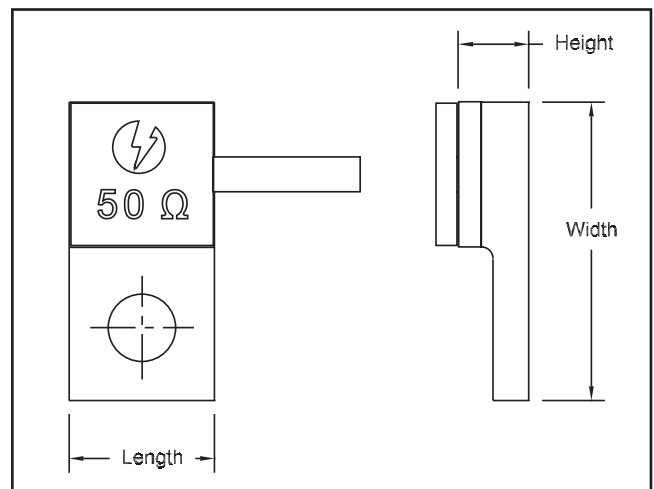


Figure 2

Power (Watts)	Frequency (GHz)	Ceramic	Film	Width	Length	Height	Figure	Model
150	3.0	AlN	Thin	0.870	0.375	0.105	3	ANT870-150
150	3.0	AlN	Thin	0.870	0.375	0.105	3	ANT870-150LP
150	2.7	AlN	Thick	0.870	0.375	0.105	3	KAT870-150
150	1.0	BeO	Thin	0.870	0.375	0.105	3	PPT870-150-3
200	4.0	BeO	Thin	0.975	0.375	0.170	3	PPT975-200LP
200	1.0	AlN	Thin	0.975	0.375	0.170	3	ANT975-200
250	3.0	AlN	Thin	1.250	0.500	0.170	3	ANT1250-250LP
250	2.7	AlN	Thin	0.975	0.375	0.170	3	ANT975-250
250	1.0	BeO	Thin	0.870	0.375	0.105	3	PPT870-250-3
250	1.0	BeO	Thin	0.975	0.375	0.170	3	PPT975-250-3
300	4.0	BeO	Thin	0.975	0.375	0.170	3	PPT975-300
300	4.0	BeO	Thin	0.975	0.375	0.170	3	PPT975-300LP
400	1.0	AlN	Thin	1.250	0.500	0.170	3	ANT1250-400
400	0.4	BeO	Thin	1.250	0.500	0.170	3	PPT1250-400
500	2.0	BeO	Thick	1.250	0.500	0.170	3	TPT1250-500
500	1.5	BeO	Thin	1.250	0.500	0.190	3	PPT1250-500
600	0.5	AlN	Thin	1.900	1.040	0.190	4	ANT1900-600
600	0.4	BeO	Thin	1.250	0.500	0.170	3	PPT1250-600
800	1.0	AlN	Thick	1.900	1.040	0.190	4	KAT1900-800
800	0.4	BeO	Thin	1.900	1.040	0.190	4	PPT1900-800
1000	1.0	AlN	Thick	1.900	1.040	0.190	4	KAT1900-1000
1250	0.4	BeO	Thick	1.900	1.040	0.190	4	TPT1900-1250

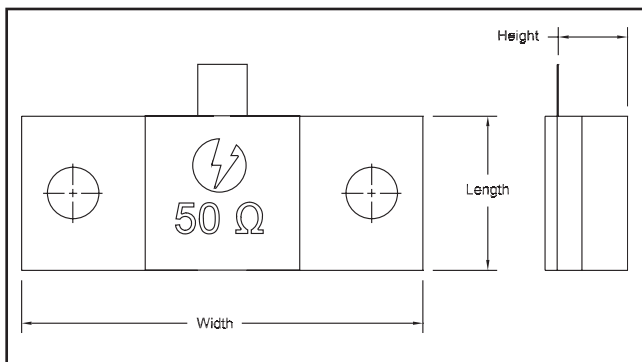


Figure 3

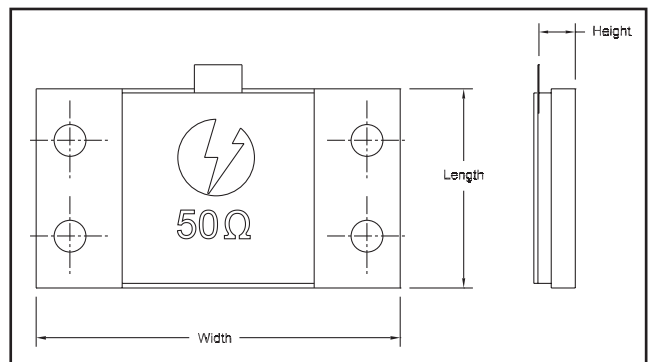


Figure 4



Flange Resistors Up to 800 Watts, Up to 4 GHz

Powerfilm flange resistors are used in power generators, attenuators, or stripline and microstrip hybrids. Resistance values from 5 to 300 ohms and tolerances from 1% to 5% are available for frequencies up to 4 GHz and power levels up to 800 Watts. Flange sizes vary from 0.3"x0.2" to 1.9"x1.0". Other designs are available upon request.

Power (Watts)	Frequency (GHz)	Ceramic	Film	Width	Length	Height	Figure	Model
10	4.0	AlN	Thin	0.300	0.200	0.105	1	ANR300-10
20	2.0	BeO	Thin	0.515	0.250	0.125	2	PPR515-20-3
20	4.0	BeO	Thin	0.300	0.200	0.105	1	PPR300-20
25	4.0	AlN	Thin	0.300	0.200	0.105	1	ANR300-25
30	2.5	BeO	Thin	0.515	0.250	0.105	2	PPR515-30-4
40	2.5	AlN	Thin	0.300	0.200	0.125	2	ANR515-40
40	4.0	BeO	Thin	0.800	0.230	0.105	3	PPR800-40-3
50	4.0	BeO	Thin	0.300	0.200	0.105	1	PPR300-50
80	1.0	AlN	Thin	0.300	0.200	0.125	2	ANR515-80
80	2.0	BeO	Thin	0.515	0.250	0.125	2	PPR515-80
100	3.0	AlN	Thin	0.300	0.200	0.105	3	ANR800-100
125	2.5	BeO	Thin	0.515	0.250	0.105	2	PPR515-125
150	1.0	BeO	Thin	0.870	0.250	0.105	3	PPR870-150-3
150	3.0	AlN	Thin	0.300	0.200	0.105	3	ANR870-150
200	1.0	AlN	Thin	0.300	0.200	0.170	3	ANR975-200
250	1.0	BeO	Thin	0.870	0.375	0.105	3	PPR870-250
250	1.0	BeO	Thin	0.975	0.375	0.170	3	PPR975-250-3
400	0.5	BeO	Thin	1.250	0.500	0.170	3	PPR1250-400
400	1.0	AlN	Thin	1.250	0.500	0.170	3	ANR1250-400
600	0.5	AlN	Thin	1.900	1.040	0.190	4	ANR1900-600
650	0.5	BeO	Thin	1.250	0.500	0.170	3	PPR1250-650
800	0.4	BeO	Thin	1.900	1.040	0.190	4	PPR1900-800

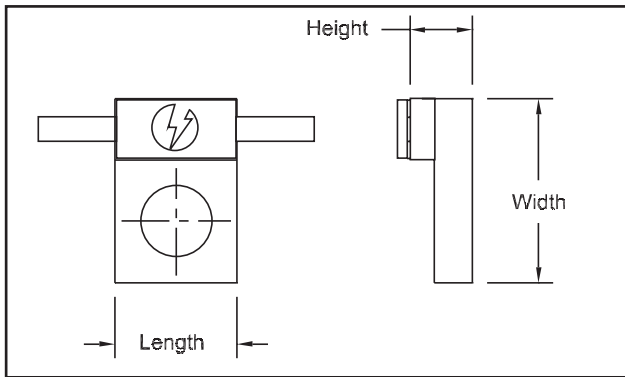


Figure 1

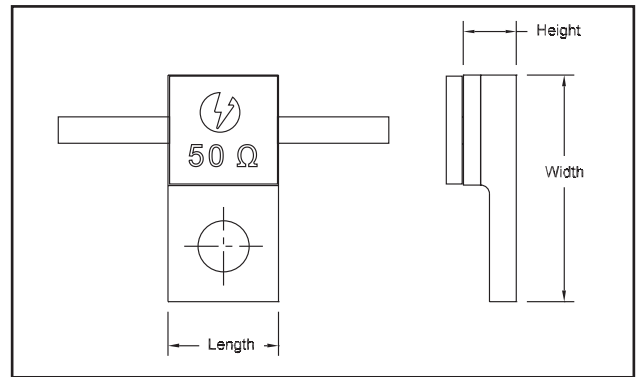


Figure 2

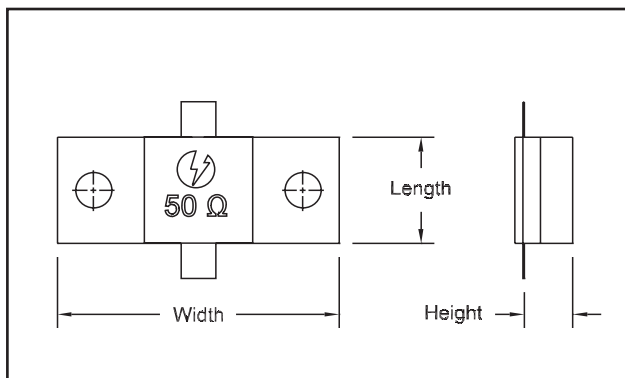


Figure 3

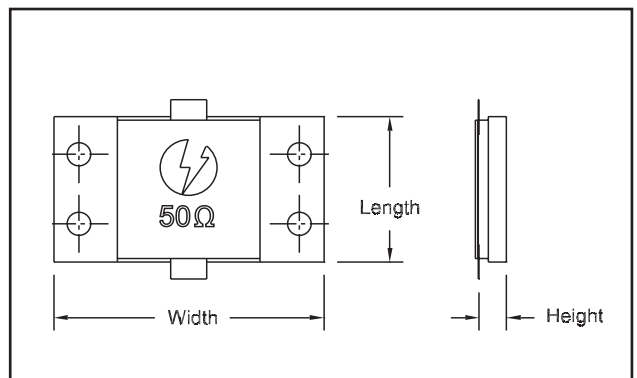


Figure 4



Flange Attenuators Up to 250 Watts, Up to 4 GHz

Powerfilm™ flange attenuators are designed to uniformly reduce power of the RF signal while generating only a small reflection even under maximum power conditions. The flange attenuators are often used in high-power amplifiers and as terminating attenuators in isolators where lower-level signal sampling may be required. Standard dB values are 1, 2, 3, 4, 5, 6, 10, 20, and 30 for frequencies up to 4 GHz and power levels up to 250 Watts. Other designs may be available upon request.

Power (Watts)	Frequency (GHz)	Ceramic	Film	Width	Length	Height	Figure	Model
10	4.0	BeO	Thin	0.300	0.200	0.105	1	PPA10
20	4.0	BeO	Thin	0.515	0.250	0.105	2	PPA20
50	1.0	BeO	Thin	0.975	0.375	0.170	3	PPA50
100	0.5	BeO	Thick	1.250	0.500	0.170	3	HPA100
100	0.5	BeO	Thin	1.250	0.500	0.170	3	PPA100
100	2.3	AlN	Thick	0.800	0.230	0.105	4	2ANA100
100	3.0	AlN	Thin	0.830	0.250	0.105	4	3ANA100
150	1.9	AlN	Thick	1.250	0.500	0.105	4	2ANA150
250	1.0	AlN	Thick	1.250	0.500	0.170	4	1ANA250
250	2.3	AlN	Thick	1.250	0.500	0.170	4	2ANA250

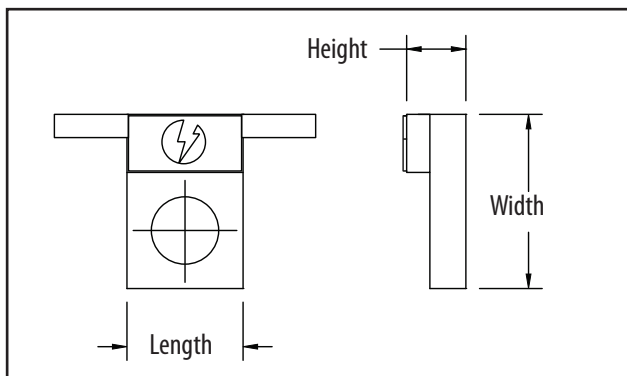


Figure 1

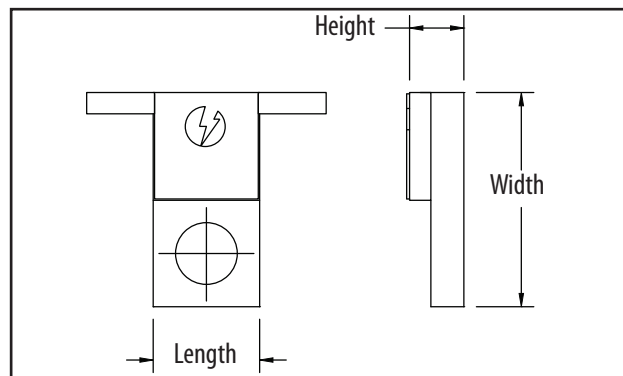


Figure 2

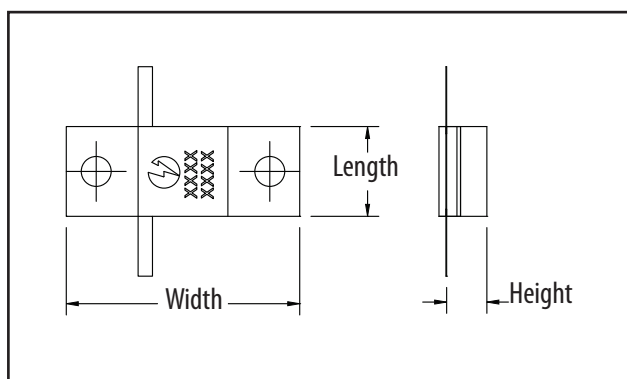


Figure 3

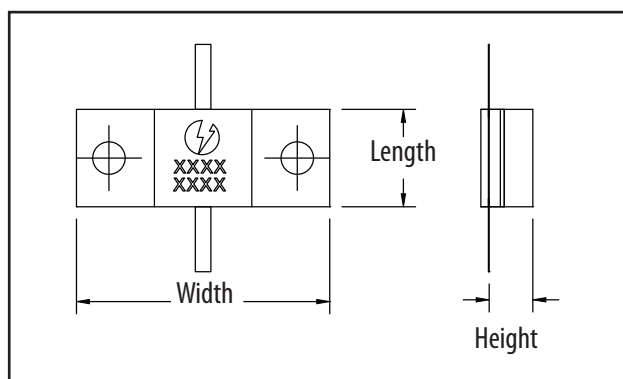
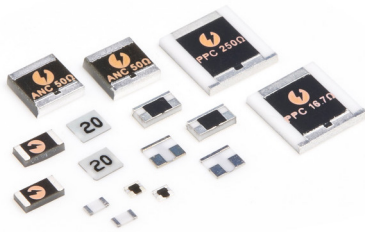


Figure 4

Powerfilm™ Surface Mount Products

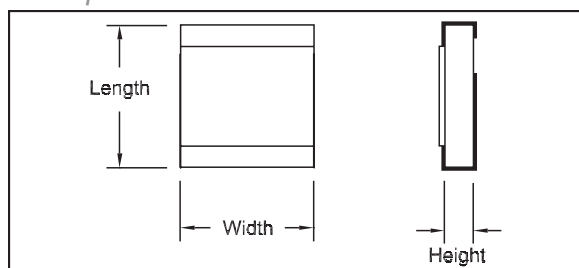


Chip Terminations Up to 300 Watts, Up to 18 GHz

API Technologies offers a wide selection of Powerfilm™ chip terminations. These surface-mount resistive components allow for RF power dissipation in terminations and isolators. Depending on desired specifications, chips are fabricated on BeO, Aluminum Nitride, or Alumina ceramics with either thin or thick resistors. Powerfilm™ chip terminations and resistors with standard values of 50 and 100 ohm are available in wide selection of sizes and with various solder, silver, or gold finish options. Other designs, values and options may be available upon request.

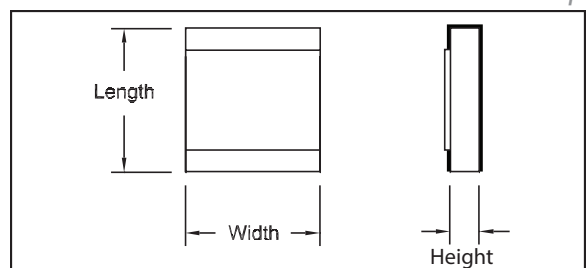
Power (Watts)	Frequency (GHz)	Ceramic	File	Wrap Option	Finish Option	Width	Length	Height	Model
3	18.0	BeO	TaN	G	G, N, T, H	0.020	0.040	0.010	NPC20-40
3	12.4	BeO	TaN	G	G, N, T, H	0.025	0.050	0.010	NPC25-50
5	10.0	BeO	TaN	G	G, N, T, H	0.050	0.050	0.010	NPC50-50
5	6.0	AlN	Thin	G	N, T, H	0.050	0.050	0.010	ANC50-50
10	4.0	AlN	Thick	G, Z	N, T, H	0.060	0.120	0.025	KAC60-120A
10	4.0	BeO	TaN	G	G, N, T, H	0.050	0.100	0.010	NPC50-100
10	12.0	BeO	TaN	Z	G, N, T, H	0.030	0.060	0.010	12NPC30-60Z
10	2.5	AlN	Thin	G	N, T, H	0.050	0.050	0.010	ANC50-100
10	2.0	AlN	Thin	G, Z	N, T, H	0.100	0.200	0.040	ANC100-200
15	4.0	BeO	TaN	G	G, N, T, H	0.075	0.150	0.010	NPC75-150
16	2.0	AlN	Thin	Z	N, T, H	0.250	0.250	0.040	ANC250-250B
20	12.0	BeO	TaN	G	G, N, T, H	0.050	0.100	0.015	12NPC50-100EG
20	18.0	BeO	TaN	G	G, N, T, H	0.050	0.100	0.010	18NPC50-100G
20	4.0	BeO	Thin	G	N, T, H	0.100	0.200	0.040	PPC100-200A
20	2.0	AlN	Thick	Z	N, T, H	0.100	0.200	0.040	KAC100-200AZ
25	7.0	AlN	Thin	G	N, T, H	0.100	0.200	0.040	ANC100-200AG
30	4.0	AlN	Thin	G	N, T, H	0.200	0.200	0.040	ANC200-200
30	2.3	AlN	Thick	G	N, T, H	0.100	0.200	0.040	KAC100-200AG
40	2.5	AlN	Thin	G	N, T, H	0.250	0.250	0.040	ANC250-250-40
40	2.5	BeO	Thin	G	N, T, H	0.250	0.250	0.040	PPC250-250A
75	7.0	BeO	Thin	G	N, T, H	0.250	0.250	0.060	PPC250-250BG1
75	5.0	AlN	Thick	G, Z	N, T, H	0.250	0.250	0.040	KAC250-250A
80	4.0	AlN	Thin	G	N, T, H	0.200	0.200	0.040	ANC200-200AG
80	1.0	AlN	Thin	G, Z	N, T, H	0.250	0.250	0.040	ANC250-250-80
100	3.0	AlN	Thick	Z	N, T, H	0.250	0.375	0.040	KAC250-375AZ
100	3.0	AlN	Thin	G	N, T, H	0.350	0.225	0.040	ANC350-225AG2
150	3.0	AlN	Thick	G	N, T, H	0.375	0.375	0.040	KAC375-250AG
100	2.0	AlN	Thin	G	N, T, H	0.350	0.225	0.040	ANC350-225
100	1.5	BeO	Thin	G	N, T, H	0.250	0.250	0.060	PPC250-250BG
125	3.0	AlN	Thick	G	N, T, H	0.350	0.225	0.040	KAC350-225AG
150	4.0	AlN	Thin	G	N, T, H	0.225	0.350	0.040	ANC350-225AG
150	3.0	AlN	Thin	G	N, T, H	0.250	0.375	0.040	ANC250-375
150	3.0	AlN	Thick	G, Z	N, T, H	0.375	0.375	0.040	KAC375-375A
150	2.0	AlN	Thin	Z	N, T, H	0.375	0.375	0.040	ANC375-375
150	1.0	BeO	Thin	G	N, T, H	0.250	0.375	0.040	PPC250-375A
200	2.7	BeO	Thin	G	N, T, H	0.250	0.375	0.040	PPC250-375AG2
200	1.0	AlN	Thin	G	N, T, H	0.375	0.375	0.040	ANC375-375
250	2.7	AlN	Thin	G	N, T, H	0.375	0.375	0.040	ANC375-375AG1
250	2.0	BeO	Thin	G	N, T, H	0.375	0.375	0.040	PPC375-375AG2
250	1.0	BeO	Thin	G	N, T, H	0.375	0.375	0.040	PPC375-375AG
300	4.0	BeO	Thin	G	N,T,H,	0.375	0.375	0.040	PPC375-375AG3

G Wrap

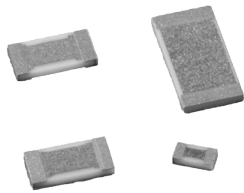


Wrap Options

Z Wrap



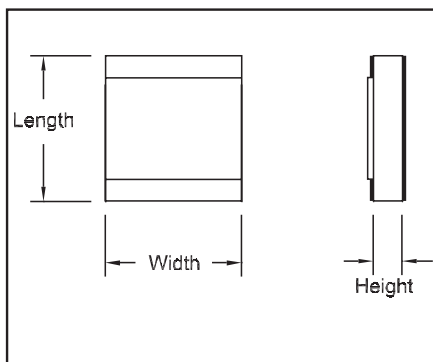
Powerfilm™ Surface Mount Products



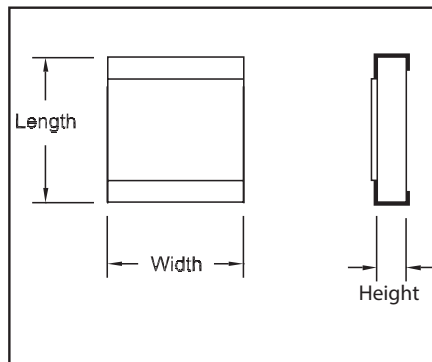
Chip Resistors Up to 250 Watts, Up to 26 GHz

API Inmet offers a wide selection of Powerfilm™ chip resistors. These surface-mount components allow are often used in hybrid attenuators and Wilkinson power dividers. Chip resistors are available with values from 5 to 300 ohm in a wide selection of sizes and finishes. Other designs, values and options may be available upon request.

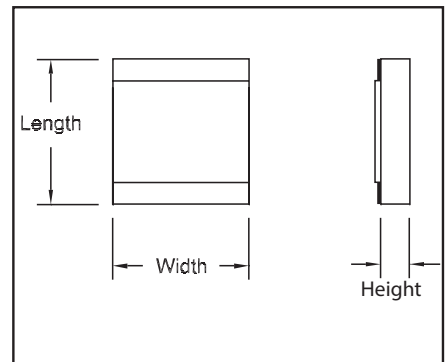
Power (Watts)	Frequency (GHz)	Ceramic	File	Wrap Option	Finish Option	Width	Length	Height	Model
1	26.0	BeO	Thick	X, W, S	G, N, T, H	0.020	0.040	0.010	26TPC20-40
3	18.0	BeO	TaN	X, W, S	G, N, T, H	0.020	0.040	0.010	NPC20-40
5	4.0	AlN	Thin	X, W, S	N, T, H	0.050	0.050	0.010	ANC50-50
5	4.0	Alumina	Thick	X, W, S	N, T, H	0.050	0.050	0.010	PC50-50
5	12.4	BeO	TaN	X, W, S	G, N, T, H	0.025	0.050	0.010	NPC25-50
8	10.0	BeO	TaN	X, W, S	G, N, T, H	0.050	0.050	0.010	NPC50-50
10	2.5	AlN	Thin	X, W, S	N, T, H	0.050	0.050	0.010	ANC50-100
10	4.0	AlN	Thick	X, S	N, T, H	0.060	0.120	0.025	KAC60-120A
10	6.0	BeO	Thin	X, W, S	N, T, H	0.050	0.100	0.025	PPC50-100D
10	8.0	BeO	Thin	X, S	N, T, H	0.050	0.100	0.040	PPC50-100A
20	3.0	AlN	Thick	X, S	N, T, H	0.100	0.200	0.040	KAC100-200A
20	4.0	AlN	Thin	X, W, S	N, T, H	0.100	0.200	0.040	ANC100-200A
30	4.0	AlN	Thin	X, S	N, T, H	0.200	0.200	0.040	ANC200-200
25	4.0	BeO	TaN	X, W, S	G, N, T, H	0.050	0.100	0.010	NPC50-100
40	2.5	AlN	Thin	X, W, S	N, T, H	0.250	0.250	0.040	ANC250-250-40
50	4.0	BeO	TaN	X, W, S	G, N, T, H	0.075	0.150	0.010	NPC75-150
60	3.0	BeO	Thin	X	N, T, H	0.250	0.250	0.060	3PPC250-250B
65	4.0	BeO	Thin	X, W, S	N, T, H	0.100	0.200	0.040	PPC100-200A
75	5.0	AlN	Thick	X, S	N, T, H	0.250	0.250	0.040	KAC250-250A
80	1.5	BeO	Thin	X	N, T, H	0.250	0.250	0.060	PPC250-250B
100	2.0	AlN	Thin	X	N, T, H	0.350	0.225	0.040	ANC350-225
100	3.0	AlN	Thick	X, S	N, T, H	0.250	0.375	0.040	KAC250-375A
125	1.0	BeO	Thin	X	N, T, H	0.250	0.250	0.040	PPC250-250A
150	1.0	BeO	Thin	X	N, T, H	0.250	0.375	0.040	PPC250-375A
150	3.0	AlN	Thin	X	N, T, H	0.250	0.375	0.040	ANC250-375
200	1.0	AlN	Thin	X	N, T, H	0.375	0.375	0.040	ANC375-375
250	1.0	BeO	Thin	X	N, T, H	0.375	0.375	0.040	PPC375-375A



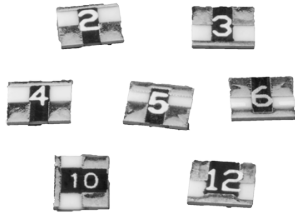
X Wrap



W Wrap



S Wrap



Chip Attenuators Up to 250 Watts, Up to 18 GHz

Powerfilm™ chip attenuators from API Inmet come in two varieties: “Temperature Stable” (standard) and “Temperature Variable” attenuators. The standard attenuators reduce the RF power uniformly at all temperatures while the temperature-variable chips are designed to reduce their attenuation at elevated temperatures to provide optimal response needed in signal-leveling applications. Chip attenuators are used in amplifier circuits, receivers, up/down converters, phase-matched arrays, and switching applications. Depending on desired specifications, chips are fabricated on BeO, Aluminum Nitride, or Alumina ceramics with either thin or thick resistors. Other designs, values and options may be available upon request.

Power (Watts)	Frequency (GHz)	Ceramic	File	Wrap	Finish Option	Width	Length	Height	Model
0.75	8.0	Alumina	Thin	F	N, T, H, G	0.060	0.075	0.010	PCAAF
0.75	18.0	Alumina	Thin	Tabbed	G, T, H	0.060	0.075	0.040	PCAAL
0.75	18.0	Alumina	Thin	W	N, T, H, G	0.060	0.075	0.010	PCAAW
0.75	18.0	Alumina	Thin		N, T, H, G	0.060	0.075	0.010	PCAA
1.5	4.0	Alumina	Thin	F	N, T, H, G	0.125	0.150	0.010	PCAF
1.5	12.4	Alumina	Thin		N, T, H, G	0.125	0.150	0.010	PCA
1.5	12.4	Alumina	Thin	W	N, T, H, G	0.125	0.150	0.010	PCAW
1.5	12.4	Alumina	Thin	Tabbed	G, T, H	0.125	0.150	0.040	PCAL
10.0	4.0	BeO	Thin	G	N, T, H	0.100	0.200	0.040	KPA10
20.0	4.0	BeO	Thin	G	N, T, H	0.250	0.250	0.040	KPA20
50.0	1.0	BeO	Thin	G	N, T, H	0.375	0.375	0.040	KPA50
100.0	0.4	BeO	Thick	G	N, T, H	0.500	0.500	0.040	TPA100
100.0	0.5	BeO	Thin	G	N, T, H	0.500	0.500	0.040	KPA100
100.0	2.3	AlN	Thick	G, Tabbed	N, T, H	0.350	0.225	0.040	2KNA100
100.0	3.0	AlN	Thin	G, Tabbed	N, T, H	0.375	0.250	0.040	3KNA100
150.0	1.9	AlN	Thick	G, Tabbed	N, T, H	0.375	0.250	0.040	2KNA150
250.0	1.0	AlN	Thick	G, Tabbed	N, T, H	0.375	0.375	0.040	1KNA250
250.0	2.3	AlN	Thick	G, Tabbed	N, T, H	0.500	0.500	0.040	2KNA250

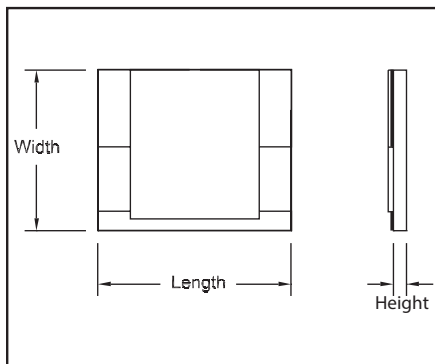


Temperature Variable Attenuators Up to 18 GHz

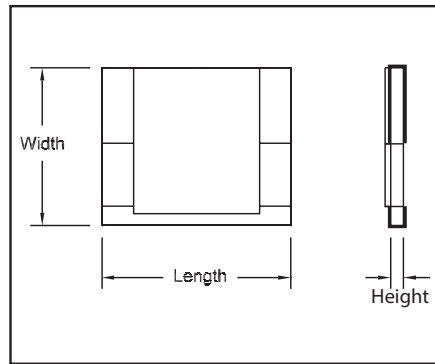
Powerfilm temperature-variable chip attenuators are designed to reduce their attenuation at elevated temperatures to provide optimal response needed in signal-leveling applications. TCA chips are fabricated on Alumina ceramics with proprietary thick resistors. Other designs, values and options may be available upon request.

Power (Watts)	Frequency (GHz)	Temperature Coefficient of Attenuation	Ceramic	Film	Wraps	Finish Option	Width	Length	Height	Model
0.2	18.0	-0.005	Alumina	Thick	F	N, T, H	0.060	0.075	0.010	TCAAF-N05
0.2	18.0	-0.005	Alumina	Thick		N, T, H	0.060	0.075	0.010	TCAA-N05
0.2	18.0	-0.005	Alumina	Thick	W	N, T, H	0.060	0.075	0.010	TCAAW-N05
1.5	12.0	-0.005	Alumina	Thick	F	N, T, H	0.125	0.150	0.010	TCAF-N05
1.5	12.0	-0.005	Alumina	Thick		N, T, H	0.125	0.150	0.010	TCA-N05
1.5	12.0	-0.005	Alumina	Thick	W	N, T, H	0.125	0.150	0.010	TCAW-N05
1.5	12.0	-0.009	Alumina	Thick	F	N, T, H	0.125	0.150	0.010	TCAF-N09
1.5	12.0	-0.009	Alumina	Thick		N, T, H	0.125	0.150	0.010	TCA-N09
1.5	12.0	-0.009	Alumina	Thick	W	N, T, H	0.125	0.150	0.010	TCAW-N09

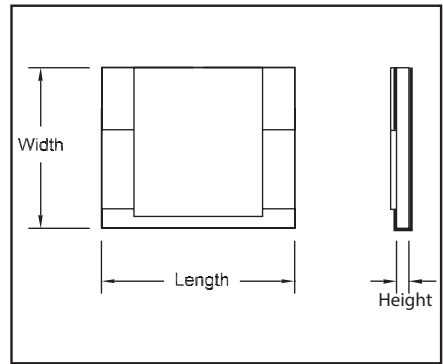
Attenuator Wraps



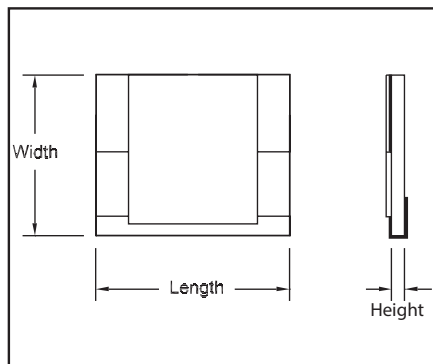
No Wrap



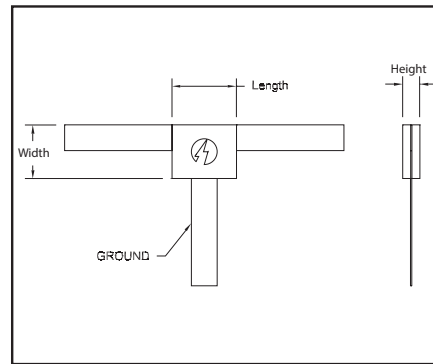
F Wrap



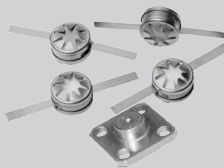
G Wrap



W Wrap



Tabbed

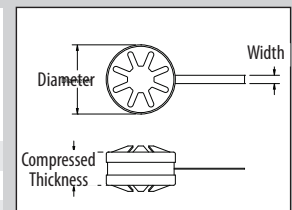


Pill Terminations and Attenuators for Stripline Applications Up to 10 Watts, Up to 27 GHz

API Inmet Powerfilm™ product line includes a selection of passive resistive components designed for use with stripline circuits. Pill terminations and attenuators with ground compression springs and RF input/output tabs are intended for drop-in insertion into a stripline circuit. The stripline flange termination are commonly used for dissipation of power in stripline couplers and isolators. Stripline products are available for frequencies up to 27 GHz and power levels up to 10 Watts average. Other designs, values and options may be available upon request.

Pill Terminations

Power (Watts)	Frequency (GHz)	Ceramic Substrate	Resistor Film	Diameter (Inches)	Width (Inches)	Compressed Thickness (Inches)	Model
1	18.0	BeO	Thin	0.250	0.06	0.125	PST-1
3	18.0	BeO	Thin	0.250	0.06	0.125	PST-2
1	6.0	Alumina	Thin	0.250	0.03	0.075	PST-5
1	18.0	Alumina	Thin	0.250	0.03	0.125	PST-62



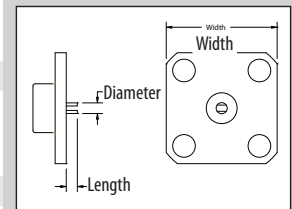
Pill Terminations

Pill Attenuators

1	18.0	Alumina	Thin	0.250	0.03	0.125	PST-62
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Stripline Flange Terminations

	Diameter	Width	Length	Model			
◆ 1	27.0	Alumina	Thin	0.050	0.500	0.050	PFT500-1W
◆ 10	18.0	BeO	Thin	0.050	0.500	0.050	PFT500-10W



Stripline Flange Terminations

RESISTORS ROD

DC - 40 GHz CARBON AND THIN FILM

MODELS:

DC-40 GHz Performance / Excellent Uniformity
Minimum Non-Inductive Adjustment / Solderable Terminals

SPECIFICATIONS:

Electrical:

Resistance Range _____ 1 – 600 Ohms
Resistance Tolerance _____ $\pm 1\%$ Standard

Power Handling _____ 0.10 – 50 Watts

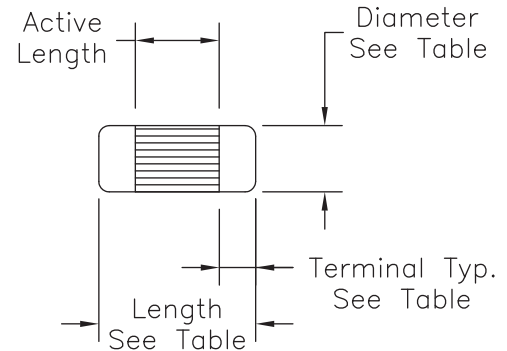
Temperature Coefficient _____ -250 ppm
(Depending upon Size and Heatsinking)

Mechanical:

Substrates _____ Alumina & BeO

Protective Coating _____ Clear High-Temp
Silicone Coating

Terminals _____ Solderable Silver finish



Diameter	Length	Terminal	Active Length	Ceramic	Resistor Film	Model
0.020	0.120	0.025	0.070	Alumina	Carbon	RC020-120AL
0.020	0.120	0.025	0.070	Alumina	Thin	RM020-120AL
0.020	0.120	0.025	0.070	BeO	Carbon	RC020-120BE
0.030	0.120	0.025	0.070	Alumina	Carbon	RC030-120AL
0.030	0.120	0.025	0.070	BeO	Carbon	RC030-120BE
0.040	0.090	0.025	0.040	Alumina	Carbon	RC040-90AL
0.040	0.130	0.025	0.080	Alumina	Carbon	RC040-130AL
0.040	0.130	0.04	0.050	Alumina	Thin	RM040-130AL
0.040	0.130	0.04	0.050	BeO	Thin	RM040-130BE
0.050	0.250	0.03	0.190	Alumina	Carbon	RC050-250AL
0.050	0.250	0.03	0.190	BeO	Carbon	RC050-250BE
0.060	0.125	0.03	0.065	Alumina	Carbon	RC060-125AL
0.060	0.125	0.03	0.065	BeO	Carbon	RC060-125BE
0.060	0.187	0.03	0.127	Alumina	Carbon	RC060-187AL
0.060	0.187	0.03	0.127	BeO	Carbon	RC060-187BE
0.060	0.250	0.03	0.190	Alumina	Carbon	RC060-250AL
0.060	0.250	0.03	0.190	BeO	Carbon	RC060-250BE
0.080	0.250	0.03	0.190	Alumina	Carbon	RC080-250AL
0.080	0.250	0.03	0.190	BeO	Carbon	RC080-250BE
0.120	0.250	0.06	0.130	Alumina	Carbon	RC120-250AL
0.120	0.250	0.06	0.130	BeO	Carbon	RC120-250BE
0.120	0.375	0.06	0.255	Alumina	Carbon	RC120-375AL
0.120	0.375	0.06	0.255	BeO	Carbon	RC120-375BE
0.120	0.500	0.06	0.380	Alumina	Carbon	RC120-500AL
0.120	0.500	0.06	0.380	BeO	Carbon	RC120-500BE
0.125	0.500	0.06	0.380	Alumina	Carbon	RC125-500AL
0.125	0.500	0.06	0.380	BeO	Carbon	RC125-500BE
0.250	0.750	0.06	0.630	Alumina	Carbon	RC250-750AL
0.250	0.750	0.06	0.630	BeO	Carbon	RC250-750BE
0.375	0.750	0.06	0.630	Alumina	Carbon	RC375-750AL
0.375	0.750	0.06	0.630	BeO	Carbon	RC375-750BE

HOW TO ORDER:

Model Number: **RC XXX-YYYMMRRR-1**

Outer Diameter | Length | Material | Resistance | $\pm 1\%$ Tolerance

BE = Beryllium Oxide
AL = Alumina

Ordering Examples:

Model Number: **RM040-130AL50-5**
Thin Film; ϕ .040 x .130 LG; Alumina; 50 Ohms $\pm 5\%$

Model Number: **RC 250-750BE50-1**
Carbon Film; ϕ .250 x .750 LG; BeO; 50 Ohms $\pm 1\%$

Model Number: **RC 125-500AL75-1**
Carbon; ϕ .125 x .500 LG; Alumina; 75 Ohms $\pm 1\%$

RESISTORS STEP-ROD

DC - 26.5 GHz CARBON FILM



MODELS:

DC-26.5 GHz Performance / Excellent Uniformity
Minimum Non-Inductive Adjustment / Solderable Terminals

SPECIFICATIONS:

Electrical:

Resistance Range _____ 1 – 600 Ohms
Resistance Tolerance _____ ±1% Standard

Power Handling _____ 0.25 – 50 Watts
(Depending upon Size and Heatsinking)

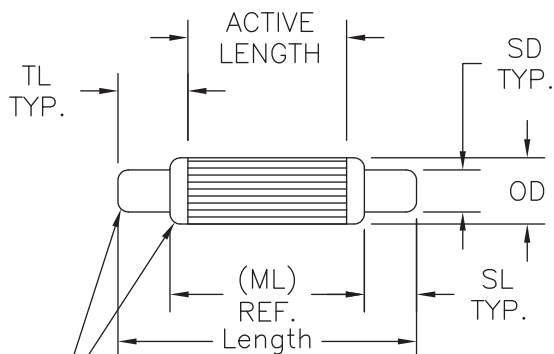
Temperature Coefficient _____ -250 ppm

Mechanical:

Substrates _____ Alumina & BeO

Protective Coating _____ Clear High-Temp
Silicone Coating

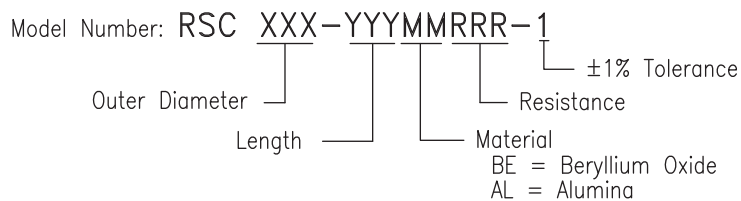
Terminals _____ Solderable Silver finish



Edges are Typically Broken to an Appropriate Radius

Diameter	Length	Step Diameter	Terminal	Middle Length	Active	Ceramic	Resistor	Model
0.040	0.250	0.030	0.044	0.182	0.162	Alumina	Carbon	RSC040-250AL
0.040	0.250	0.030	0.044	0.182	0.162	BeO	Carbon	RSC040-250BE
0.050	0.250	0.041	0.052	0.168	0.146	Alumina	Carbon	RSC050-250AL
0.050	0.250	0.041	0.052	0.168	0.146	BeO	Carbon	RSC050-250BE
0.060	0.250	0.045	0.052	0.170	0.146	Alumina	Carbon	RSC060-250AL
0.060	0.250	0.045	0.052	0.170	0.146	BeO	Carbon	RSC060-250BE
0.062	0.250	0.046	0.052	0.156	0.146	Alumina	Carbon	RSC062-250AL
0.062	0.250	0.046	0.052	0.156	0.146	BeO	Carbon	RSC062-250BE
0.120	0.250	0.093	0.08	0.126	0.090	Alumina	Carbon	RSC120-250AL
0.120	0.250	0.093	0.08	0.126	0.090	BeO	Carbon	RSC120-250BE
0.120	0.500	0.094	0.08	0.374	0.340	Alumina	Carbon	RSC120-500AL
0.120	0.500	0.094	0.08	0.374	0.340	BeO	Carbon	RSC120-500BE
0.125	0.500	0.094	0.08	0.374	0.340	Alumina	Carbon	RSC125-500AL
0.125	0.500	0.094	0.08	0.374	0.340	BeO	Carbon	RSC125-500BE
0.250	1.000	0.187	0.145	0.754	0.710	Alumina	Carbon	RSC250-1000AL
0.250	1.000	0.187	0.145	0.754	0.710	BeO	Carbon	RSC250-1000BE
0.250	2.000	0.187	0.205	1.626	1.590	Alumina	Carbon	RSC250-2000AL
0.250	2.000	0.187	0.025	1.626	1.950	BeO	Carbon	RSC250-2000BE

HOW TO ORDER:



Ordering Examples:

Model Number: RSC 040-250AL50-1
ø.040 x .250 LG; Alumina; 50 Ohms ±1%

Model Number: RSC 250-1000BE1250-1
ø.250 x 1.000 LG; Beryllium Oxide; 1250 Ohms ±1%

Model Number: RSC 125-500AL75-1
ø.125 x .500 LG; Alumina; 75 Ohms ±1%

Ordering / General Information

How to Order

When ordering, state the model number, description of the component and the frequency range as given in the catalog. You may place your order with the factory, Richardson RFPD, RFMW, or the Inmet Sales Representative in your area. Factory orders will be accepted by mail, telephone or other electronic communications pending confirmation on your standard purchase order form. Minimum factory order is \$250.00 and subject to change. Quantity minimums may apply or non-standard or special order products.

Address all orders and communications to:
INMET INC.
300 Dino Drive
Ann Arbor, MI 48103 USA

Tel.: 888-244-6638 or 734-426-5553
Fax: 734-426-5557
E-mail: inmet-sales@apitech.com
Web: www.inmet.apitech.com
CAGE Code: 64671

Payment Terms

Terms are net 30 days for customers with established credit. All other orders must be prepaid, paid by credit card (VISA, MasterCard and American Express) or C.O.D.

Shipping

All sales are F.O.B. Ann Arbor, Michigan. Unless specified in your order, orders will be shipped "best way" at the company's discretion. Inmet can only guarantee shipping date. Factory does not assume responsibility for carrier delays and cannot be held responsible for late, lost or damaged shipments. All claims must be filed with the carrier.

Certificate of Compliance

A Certificate of Compliance is shipped with every order. It is located on the reverse side of the packing slip.

Warranty

Inmet Corporation warrants each product it manufactures to be free from defects in material and workmanship under normal use and service. Inmet's only obligation under this warranty is to repair or replace, at its factory, any product or part thereof that is returned, with transportation charges prepaid, by the original purchaser within ONE YEAR from the date of shipment.

The foregoing warranty does not apply to, and in Inmet's sole opinion, products that have been subject to improper or inadequate maintenance, unauthorized modifications, misuse, or operation outside the published specifications for the product.

The warranty stated above is the sole and exclusive warranty and is in lieu of all other warranties, expressed or implied, including, but not limited to, any implied warranty or fitness for any particular purpose. Inmet shall not be liable for any direct or consequential injury, loss or damage incurred through the use, or inability to use any Inmet product.

Returns

When returning a component to our factory, a Return Material Authorization (RMA) number must be obtained from Inmet. When contacting us for an RMA number, please indicate the model number, date of the original purchase, the product lot number and the original invoice number for the purchase. Please also include as much information as possible, including test data, pertaining to the nature of the malfunction or reason for the return and point of contact information for your company.

Cancellations

Orders placed with Inmet may be cancelled only after authorization from Inmet. Any authorized cancellation is subject to cancellation charges as determined by Inmet. A component returned for credit will be subject to a restocking charge. If more than 6 months has elapsed since original purchase, the item may not be accepted for credit. Nonstandard components as determined by Inmet, cannot be returned for credit.

Product Changes

Although all information in this catalog is current at the time of release, Inmet continuing Product Improvement Program makes it necessary for Inmet to reserve the right to change specifications without notice.

Quality Assurance

Inmet's goal is to achieve complete customer satisfaction in the design, quality, delivery, pricing and support of our products. We continue to develop and improve our management systems and manufacturing processes in order to meet this goal.

Inmet's Quality Assurance system is registered to ISO-9001:2105. Our calibration program for inspection and test equipment complies with the requirements of MIL-STD 45662 and ANSI/NCSLZ540-1.

API Inmet – Wireless & Microwave Components

Innovative Design Solutions for Performance Driven Applications

API Inmet is a manufacturer and designer of wireless and microwave components. As product development is a core value, Inmet continues to demonstrate its talent for tackling new design tasks. Unusual customer specifications which require Inmet engineering to build custom components enable Inmet to stay ahead in wireless technology by designing, creating, testing and delivering products to be used in 3G, 4G LTE and 5G systems and beyond.

Inmet also designs and manufactures resistive surface mount devices that include both thin film and thick film technology available in chip, leaded, or flange mount packages. These surface mount devices are sold under the Powerfilm™ brand and include legacy designs from the former Aeroflex / KDI-Resistor business unit.

Inmet Product Offerings

- Attenuators
- Adapters
- Bias Tees
- Couplers
- DC Blocks
- Gain Equalizers
- Power Dividers
- Resistors
- Terminations

Applications

- Wireless systems
- Space
- Radar
- Communications
- Industrial
- Commercial
- Laboratory Testing
- Military

Partnering with API Inmet, API Weinschel is a manufacturer of precision RF and microwave technologies and superior quality components and subsystems for wireless, defense, test and measurement, and broadband markets throughout the world.



API Technologies Corp. is a trusted provider of RF, microwave, power, electromagnetic and security solutions for high-reliability applications. The company designs, develops, and manufactures electronic components, modules, assemblies, systems and products for technically demanding defense, commercial, industrial and aerospace applications.

While API was founded in 1981, Inmet was acquired in 2015. Inmet's custom design capabilities have been generating a substantial number of innovative microwave and wireless components for use in many markets and programs for more than 40 years.

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