Surface Mount

RF Transformer

0.1 to 70 MHz

ADT16-6T

CASE STYLE: CD637
PRICE: $ 5.95 ea.
QTY. (10-49)

Maximum Ratings

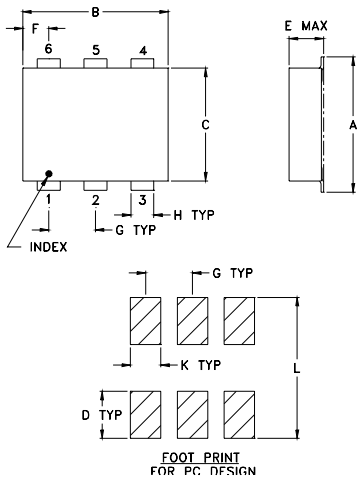
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250 mW

Pin Configuration (ks)

primary dot	3
primary	1
secondary dot	4
secondary	6
secondary ct	5
not used	2

EVALUATION BOARD P/N: TB-42

Outline Drawing

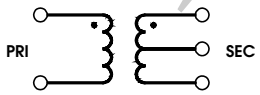


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
.280	.310	.220	.100	.206	.055	.100	.030
7.11	7.87	5.58	2.54	5.23	1.40	2.54	0.76

J	K	L	wt.
—	.065	.300	grams
—	1.65	7.62	.45

config. A



Features

- excellent return loss, 18 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.05 dB typ.
- excellent phase unbalance, 1 deg. typ. in 1 dB bandwidth

Applications

- impedance matching
- baluns

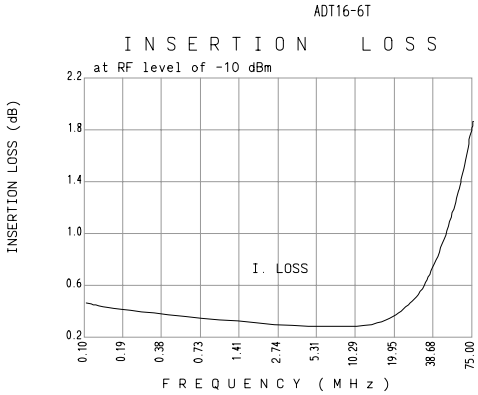
Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
16	0.1-70	0.1-70	0.18-45	.30-33	1	2	0.05	0.1

* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.
Bandwidth limited by unbalance.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.10	0.48	15.80	0.01	0.04
0.18	0.42	20.18	0.01	0.05
10.11	0.25	21.64	0.01	0.41
20.04	0.37	15.61	0.01	0.77
29.00	0.53	12.52	0.04	1.07
33.00	0.62	11.49	0.06	1.24
45.00	0.93	9.10	0.12	1.71
57.00	1.29	7.41	0.21	2.19
63.00	1.48	6.74	0.27	2.45
75.00	1.88	5.66	0.40	3.05



REV. OR
M70438
ED-8075/1
ADT16-6T
IG/TD/CP
000211

Mini-Circuits®
INTERNET http://www.minicircuits.com
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-835094 • Fax 44-1252-837010