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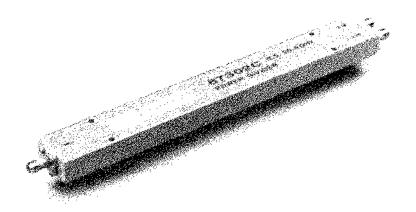
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HP 87302C HP 87303C HP 87304C Hybrid Power Dividers



Technical Data



- High isolation
- Broadband to 26.5 GHz
- Low insertion loss
- Accurate amplitude and phase tracking

Features and Description

The HP 87302C, 87303C, and 87304C power dividers are compact, hybrid microwave power dividers designed for power-splitting applications that require a minimal insertion loss and high isolation. The HP 87302C covers the entire 0.5 to 26.5 GHz frequency range with a maximum insertion loss of 1.9 dB (in addition to the 3 dB coupling loss). The HP 87303C and HP 87304C restrict the lower frequency limit for further improvement in the insertion loss. The HP 87303C

covers 1 to 26.5 GHz with a maximum insertion loss of 1.6 dB and the HP 87304C operates from 2 to 26.5 GHz with a worst-case insertion loss of 1.4 dB. All units use industry standard 3.5 mm (SMA compatable) connectors for rugged troublefree operation.

Applications

These hybrid power dividers are excellent for any application where two-way power division with high isolation and low insertion loss is required. They typically exhibit an insertion loss that is 1 to 2 dB lower than an equivalent resistive power divider (see Figure 1).

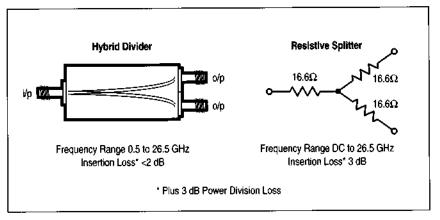


Figure 1

Product Specifications

Frequency Range (GHz)	Model	Band Segments	VSWR	Insertion Loss (dB)	Isolation (dB)	Amplitude Tracking (dB)	Phase Tracking (Deg.)
0.5 to 26.5	HP 87302C	0.5 to 18	1.45	1,5	19	0.3	6
		18 to 26.5	1.60	1.9	19	0.5	10
1.0 to 26.5	HP 87303C	1.0 to 18	1.45	1.2	19	0.3	6
		18 to 26.5	1.60	1.6	21	0.5	10
2.0 to 26.5	HP 87304C	2.0 to 18	1.45	1.1	19	0.3	6
		18 to 26.5	1.60	1.4	18	0.5	10

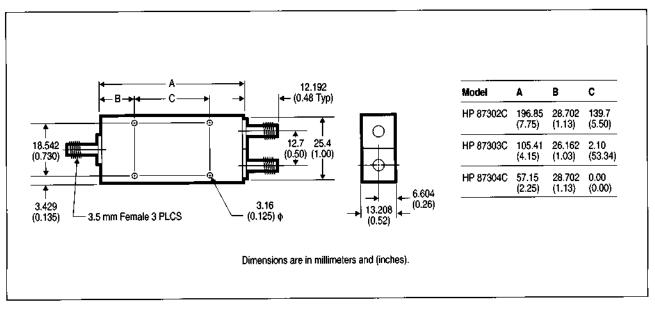
Power rating: 10 W, CW (2:1 maximum load SWR)

Connectors: 3.5 mm F, (SMA compatible)

Weight: 170 g (6 oz) net, 340 g (12 oz) shipping

Note: Amplitude and phase tracking are the ratio of one output to the other in dB or degrees, respectively.

Dimensions:



Typical Performance Curves

