

Three-Way Isolated Power Dividers Tapered

2090 Series

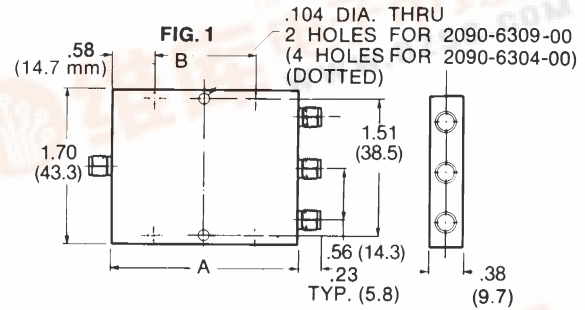
V2.00

Features

- Good Amplitude And Phase Balance
- High Isolation Between Output Ports
- Low VSWR, Small Size And Light Weight
- Octave, Multi-Octave and Decade Frequency Coverage
- Low Insertion Loss
- Power: 80 Watts Maximum
- Meets MIL-E-5400 Environment

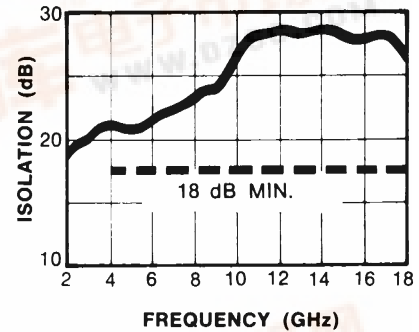
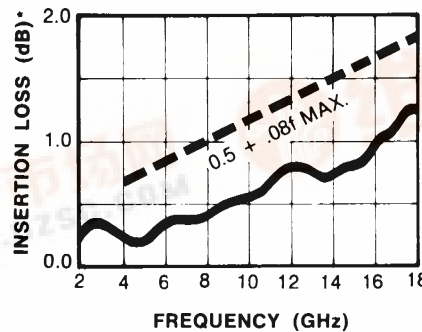
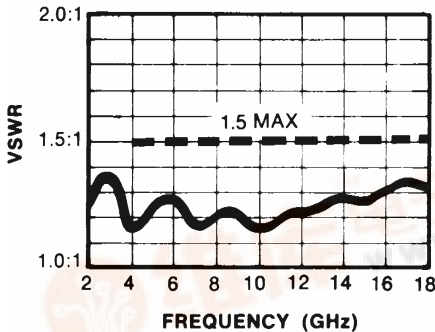
Description

Power Dividers are compact stripline units with wide bandwidth and multiple outputs. Tapered line transformers and internal terminations provide low VSWR at all ports and high isolation between all output ports. Phase and amplitude tracking of all outputs is excellent due to the symmetrical designs. Combinations of three-way and two-way power dividers in one package are available for custom applications.



Note: All dimensions are ± 0.020 , except mounting hole diameters (± 0.005) and mounting hole location (± 0.010). Height dimension excludes rivet protrusion.

Typical Performance Part No. 2090-6309-00



Specifications

Part. No.	Frequency Range (GHz)	VSWR (max.)	Isolation dB (min.)	Insertion Loss dB (max.)	Output Unbalance		Maximum Input Power** (watts)	Fig.	Size, Inches (mm)		Weight	
					Amp. (dB)	Phase (deg.)			A	B	oz.	g
2090-6304-00	0.5-18.0	1.6	18	0.4 + .24f	0.5 [†]	*	80	1	11.0 (280)	9.84 (250.0)	11.4	322
2090-6309-00	4.0-18.0	1.5	18	0.5 + .08f	0.5	*	40	1	2.02 (51.3)	—	2.1	60

* Not phase matched.

** Maximum input power with output loads of VSWR $\leq 2.0:1$. Derate to 10% of listed value when arbitrarily terminated.

[†] 0.5 dB (0.5 to 10 GHz), 1.0 dB (10 to 18 GHz)

Note: f is frequency in GHz.