

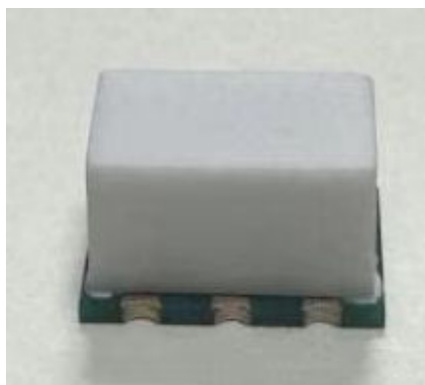
50Ω 10-500MHZ 26DB Coupler 5 Watt

Features

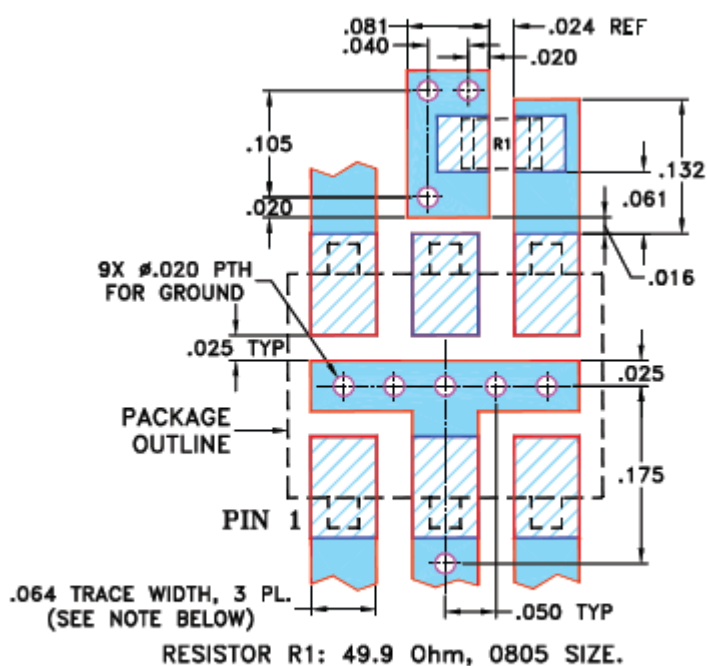
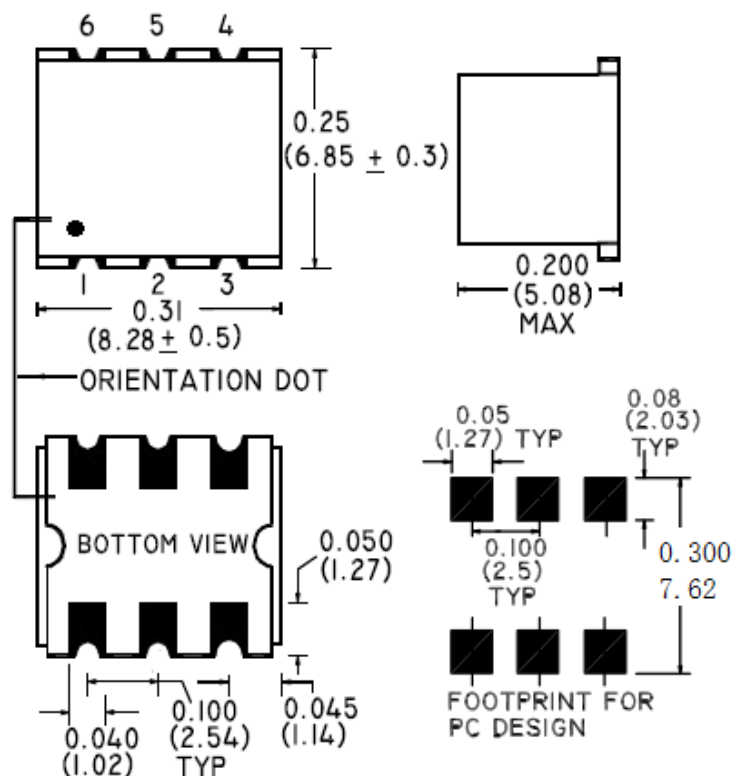
- wideband, 10-500 MHz
- low insertion loss, 0.2 dB typ.
- high directivity, 21 dB typ.
- aqueous washable

Applications

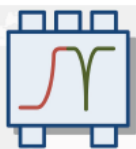
- VHF/UHF
- reflective power measurements
- communications
- signal sampling



Base dimension



Suggested PCB Layout



Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

Pin Connections

INPUT	1
OUTPUT	6
COUPLED	3
GROUND	2
50Ω TERM EXTERNAL	4
ISOLATE (DO NOT USE)	5

Directional Coupler Electrical Specifications

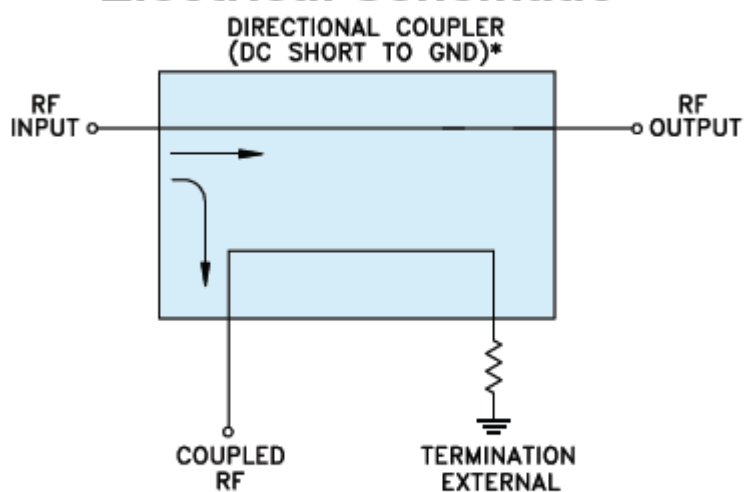
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS¹ (dB)				DIRECTIVITY (dB)				VSWR (:1)	POWER INPUT² (W)				
	Nom.	Typ. Flatness	L Typ. Max.	M Typ. Max.	U Typ. Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.	Typ.	LM Max.		U Max.				
10-500	26.0±0.5	±0.9	0.15	0.35	0.2 0.3	0.3	0.5	35	22	25	16	18	11	1.1	2.0	5

L= 10-100 MHz

M= 100-250 MHz

U= 250-500 MHz

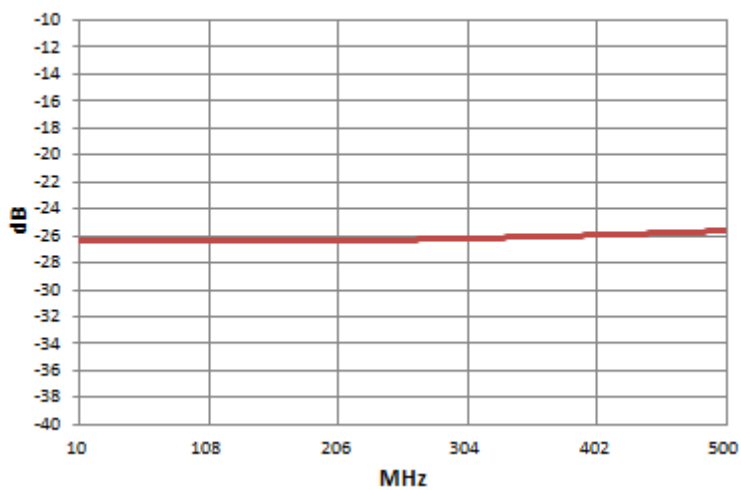
Electrical Schematic



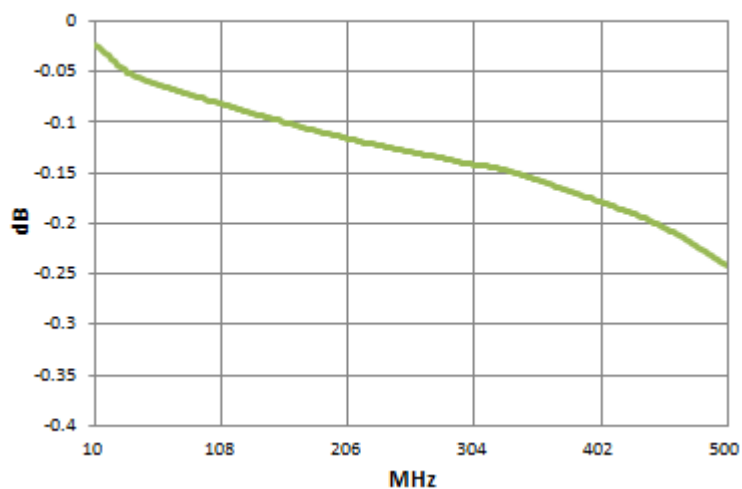
* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) AND EXTERNAL TERMINATION.



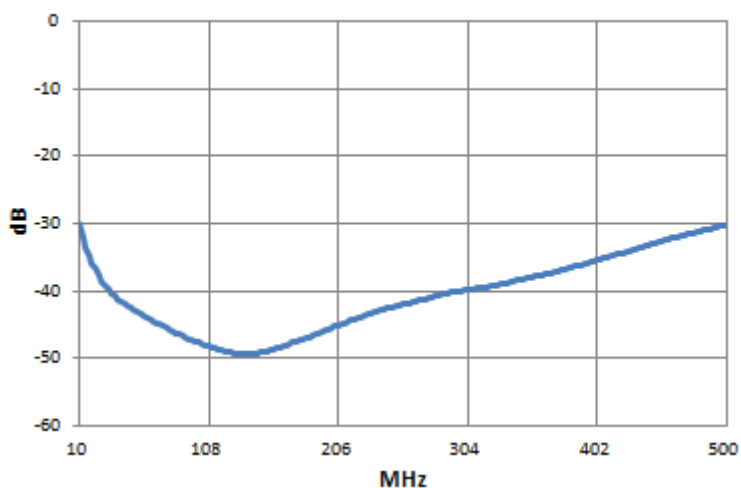
Coupling



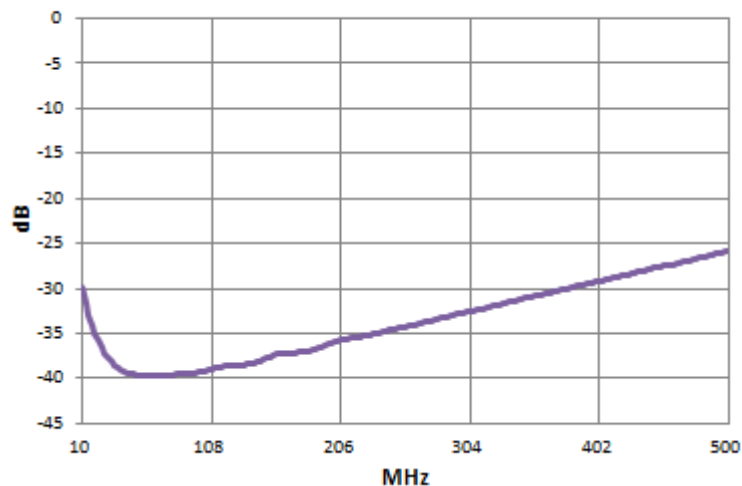
Mainline Loss



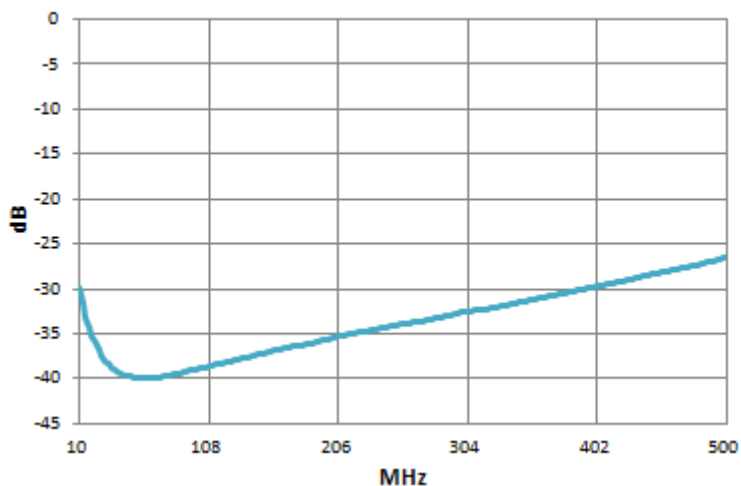
Input Return Loss



Coupling Return Loss



Output Return Loss



Directivity

