

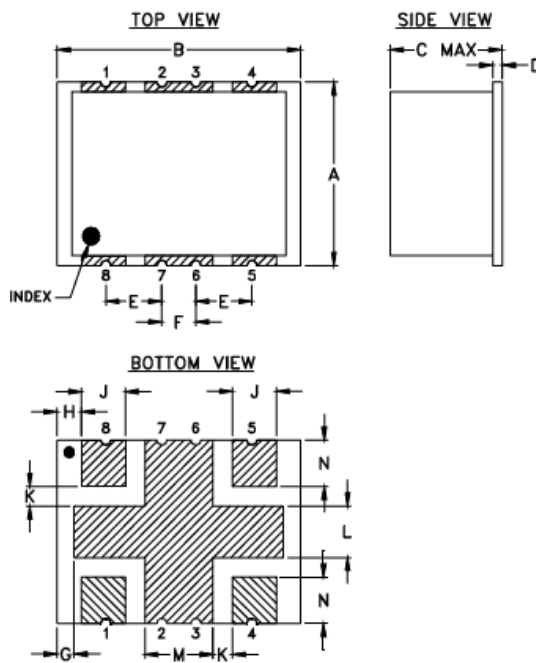
50Ω 27DB Coupling 30-840MHz 100 Watt

Feature:

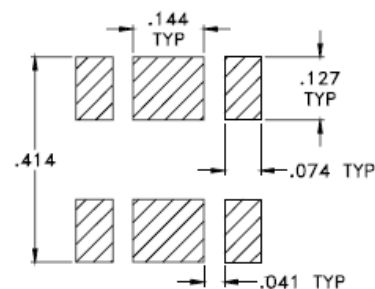
27db coupler

- Surface mount
- 260°C reflow compatible
- RoHS* compliant and lead free
- 50OHM systems

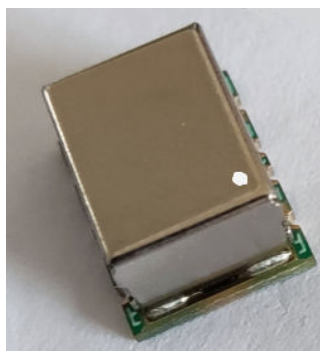
Outline Drawing



PCB Land Pattern

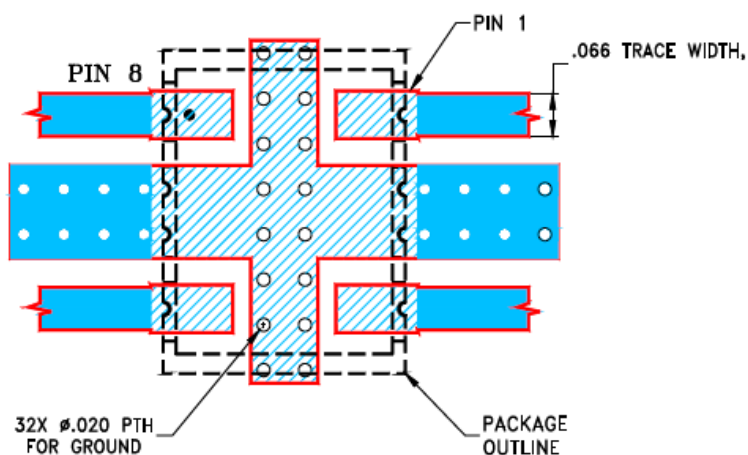
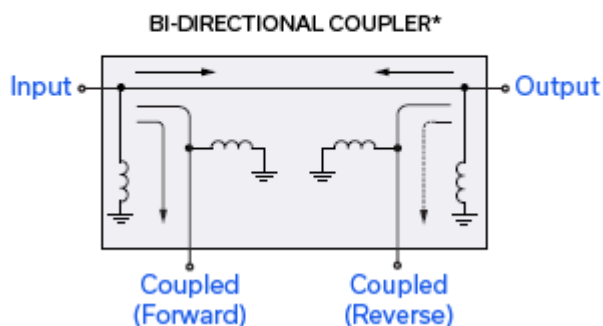


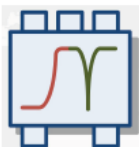
Suggested Layout,
Tolerance to be within $\pm .002$



SUGGESTED PCB LAYOUT

ELECTRICAL SCHEMATIC





Maximum Ratings

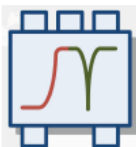
Parameter	Ratings
Operating temperature	-40°C to 85°C
Storage temperature	-55°C to 100°C

Pin Connections

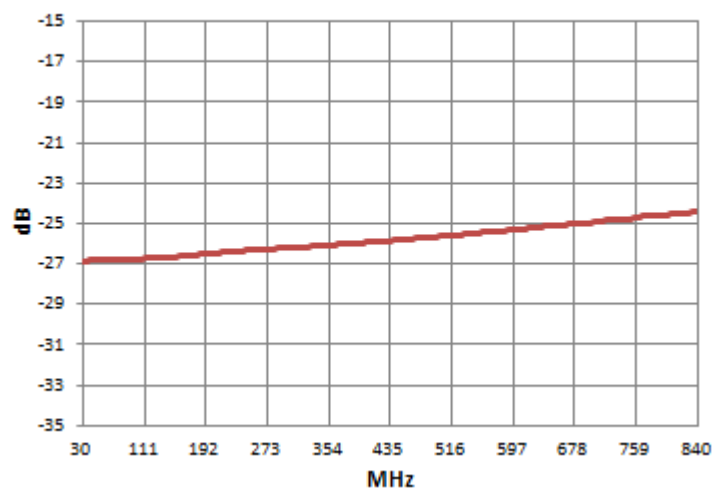
INPUT	8
OUTPUT	1
COUPLED (FORWARD)	5
COUPLED (REVERSE)	4
GROUND	2, 3, 6, 7

ELECTRICAL SPECIFICATIONS AT 25°C

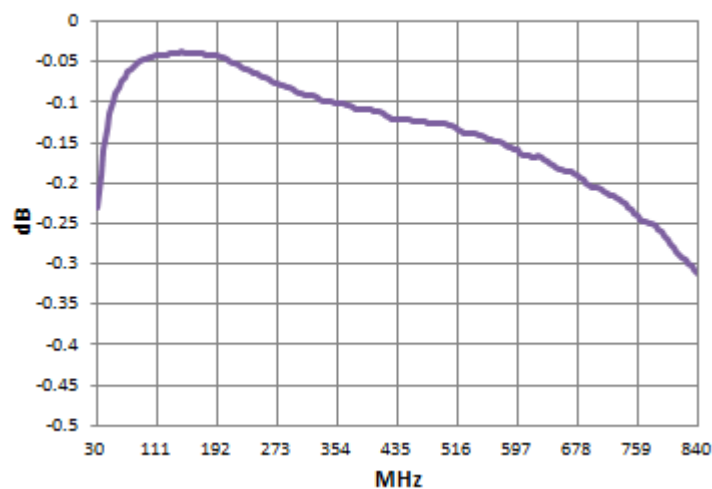
Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		30		840	MHz
Mainline Loss ¹	30-50	—	0.25	0.35	dB
	50-512	—	0.15	0.30	
	512-700	—	0.25	0.35	
	700-840	—	0.4	0.5	
Nominal Coupling	30-512	—	26.5±1	—	dB
	512-700	—	25.2±0.9	—	
	700-840	—	23.5±1.3	—	
Coupling Flatness(±)	30-260	—	0.4	0.6	dB
	260-512	—	0.7	1	
	512-700	—	0.7	1	
	700-840	—	1	1.5	
Directivity	30-512	15	22	—	dB
	512-700	13	20	—	
	700-840	10	16	—	
Return Loss (Input)	30-100	12	18	—	dB
	100-840	17	24	—	
Return Loss (Output)	30-100	12	18	—	dB
	100-840	17	24	—	
Return Loss (Coupled)	30-100	12	18	—	dB
	100-840	17	24	—	
Input Power ^{2,3}	30-512	—	—	100	W
	512-600	—	—	90	
	600-700	—	—	60	
	700-800	—	—	30	
	800-840	—	—	20	



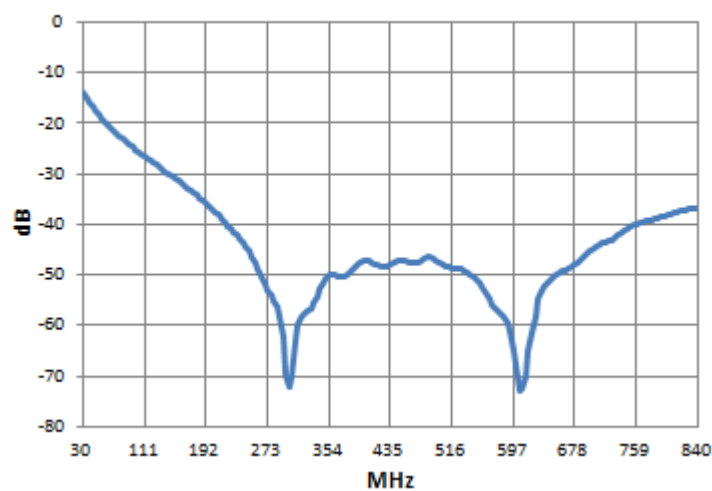
Coupling



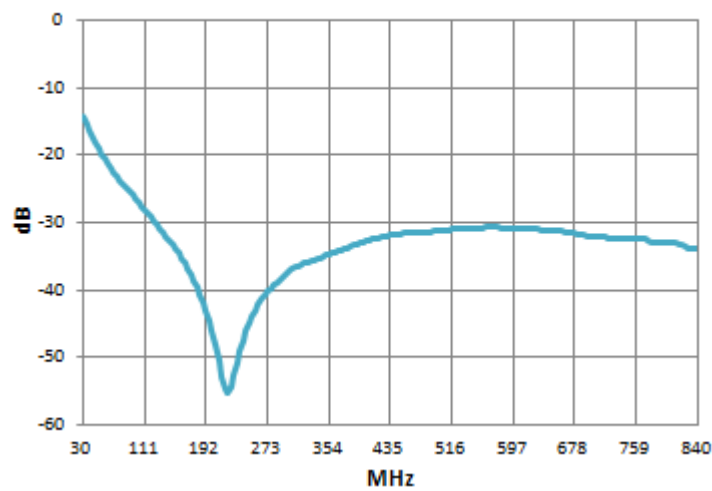
MainLine Loss



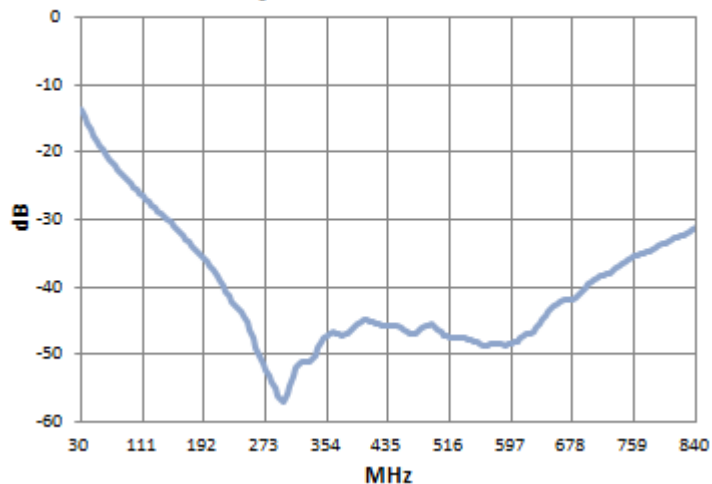
Inpu Return Loss



Coupling Return Loss



Output Return Loss



Directivity

