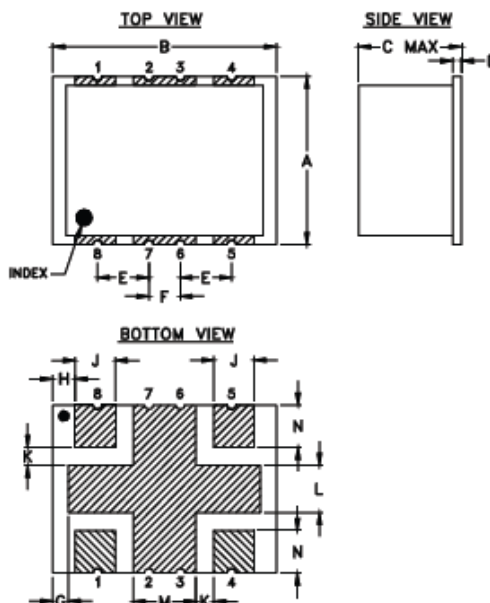


50Ω 30-540MHZ 26DB Coupler 50 Watt

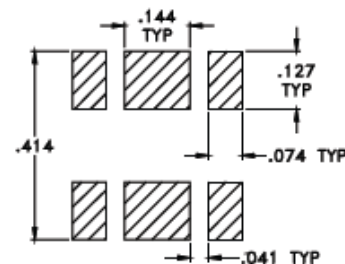
Feature:

- low mainline loss, 0.12 dB typ
- excellent VSWR, 1.12:1 typ
- excellent VSWR, 1.12:1 typ.
- high directivity, 24 dB typ.
- high power, 50W max
with output load VSWR 2.0 max.
- high power, 30W max.
with output open or short

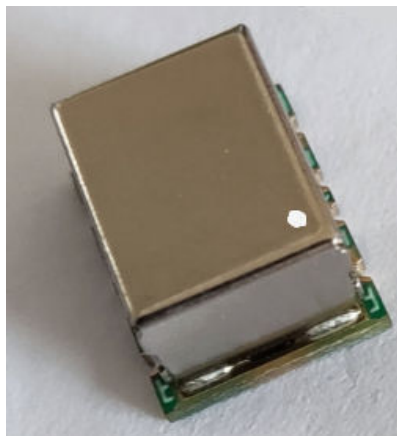
Outline Drawing



PCB Land Pattern



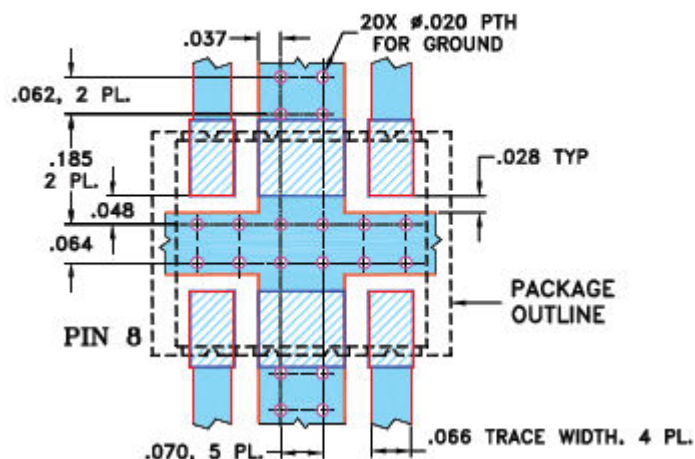
Suggested Layout,
Tolerance to be within ± 0.02



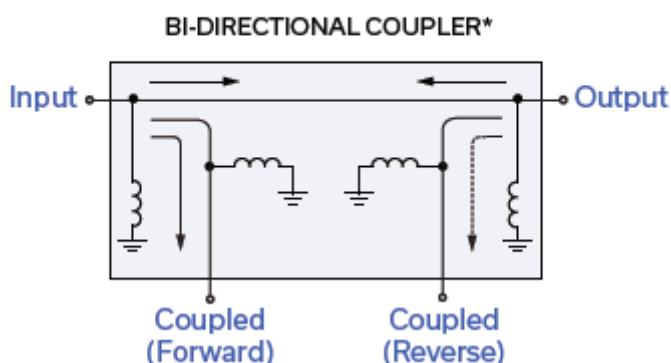
Outline Dimensions (inch/mm)

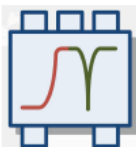
A	B	C	D	E	F	G
.38	.50	.25	.020	.115	.070	.035
9.65	12.70	6.35	0.51	2.92	1.78	0.89
H	J	K	L	M	N	wt
.050	.090	.040	.105	.140	.095	grams
1.27	2.29	1.02	2.67	3.56	2.41	0.80

Suggested PCB Layout



Electrical Schematic





Maximum Ratings

Operating Temperature -40°C to 85°C*

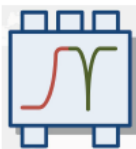
Storage Temperature -55°C to 100°C

Pin Connections

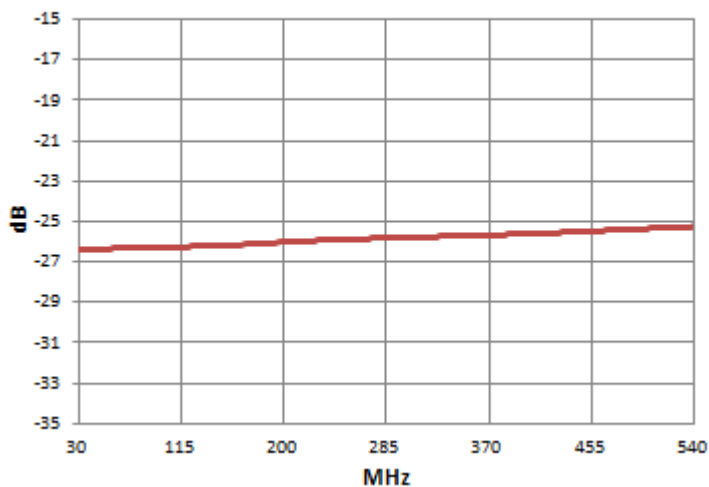
INPUT	8
OUTPUT	1
COUPLED (forward)	5
COUPLED (reverse)	4
GROUND	2,3,6,7

Electrical Specifications at 25°C

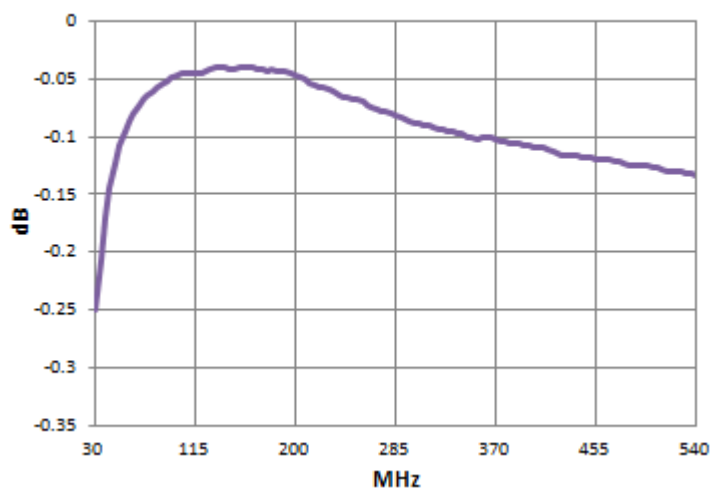
Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		30		540	MHz
Mainline Loss ¹	30-50	—	0.25	0.45	
	50-540	—	0.12	0.25	
Nominal Coupling	30-540	—	26±1.0	—	dB
Coupling Flatness (±)	30-260	—	0.4	0.6	dB
	260-540	—	0.7	1.0	
Directivity	30-50	17	20	—	dB
	50-540	18	24	—	
Return Loss (Input)	30-100	12	15	—	dB
	100-540	18	25	—	
Return Loss (Output)	30-100	12	15	—	dB
	100-540	18	25	—	
Return Loss (Coupling)	30-100	12	15	—	dB
	100-540	18	25	—	
Input Power ²	30-540	—	—	50	W



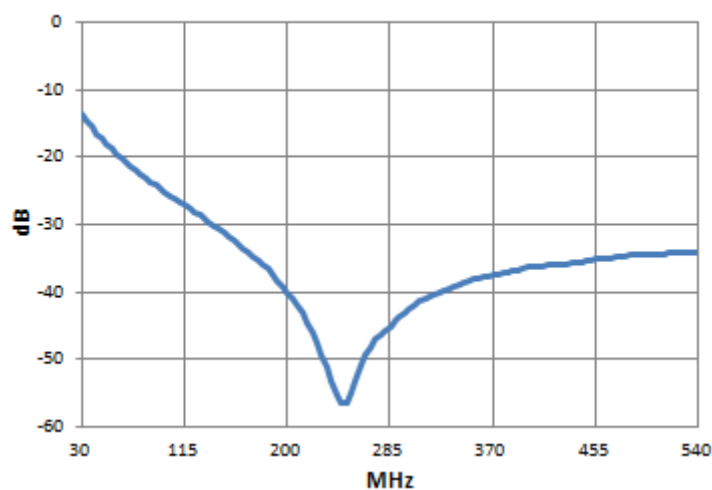
Coupling



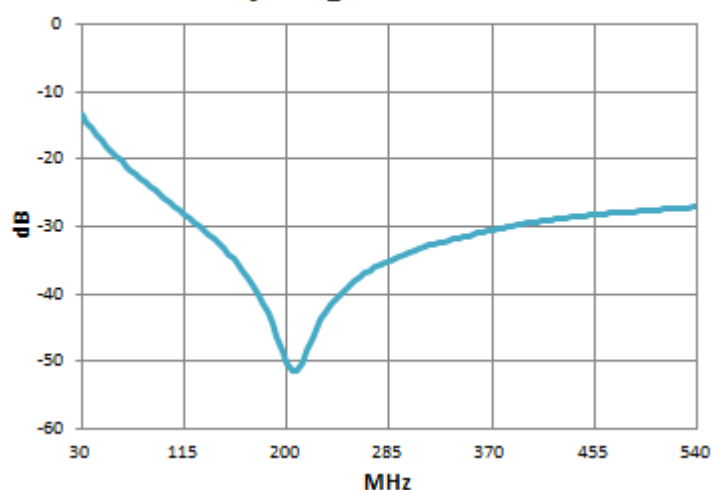
MainLine Loss



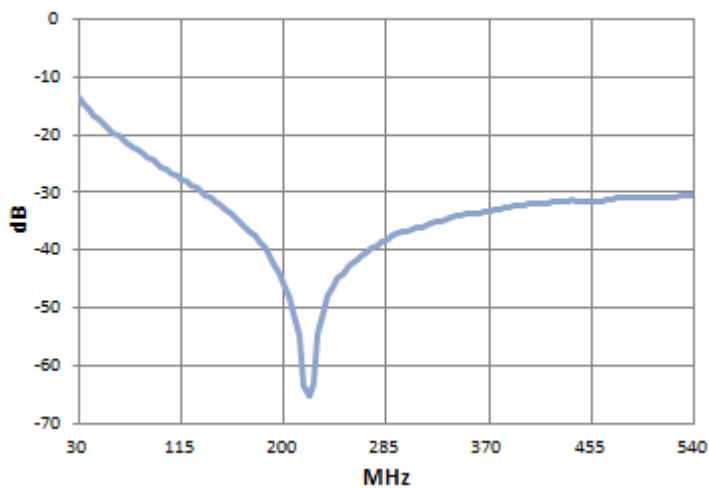
Input Return Loss



Coupling Return Loss



Output Return Loss



Directivity

