

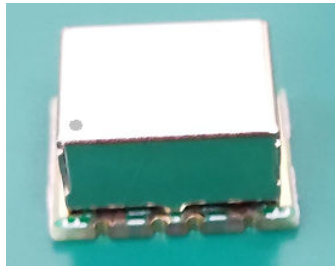
50Ω 20-100MHZ 30DB Coupling 55 Watt

Features:

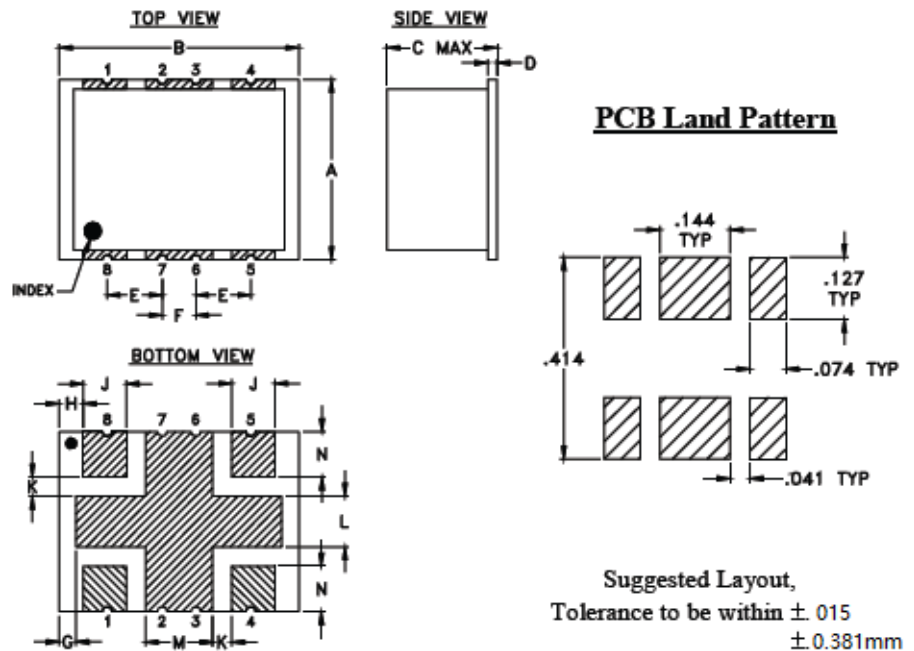
- low mainline loss, 0.06 dB typ
- good return loss, 40db typ.
- high power, 55W max

Applications.

- Military mobile
- ISM



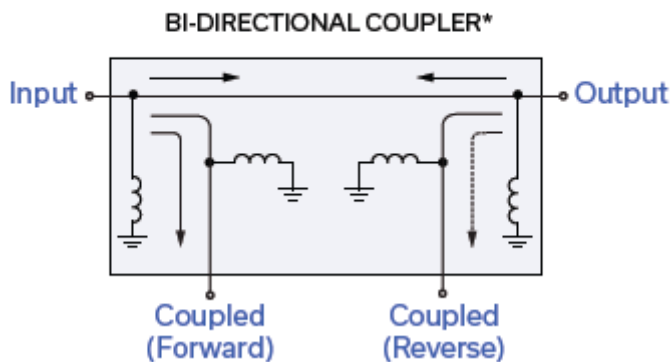
Outline Drawing



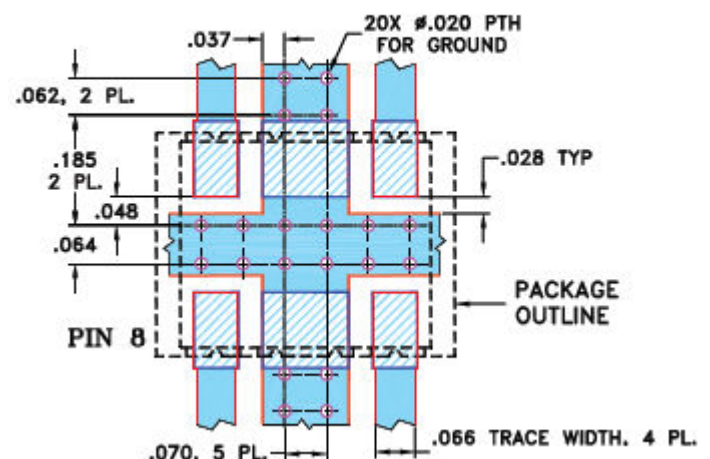
Outline Dimensions (inch mm)

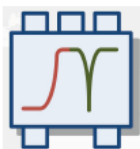
A	B	C	D	E	F	G
.38	.50	.28	.020	.115	.070	.035
9.65	12.70	7.10	0.51	2.92	1.78	0.89
H	J	K	L	M	N	wt
.050	.090	.040	.105	.140	.095	grams
1.27	2.29	1.02	2.67	3.56	2.41	0.80

Electrical Schematic



Suggested PCB Layout





Maximum Ratings

Operating Temperature -40°C to 85°C*

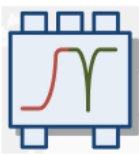
Storage Temperature -55°C to 100°C

Pin Connections

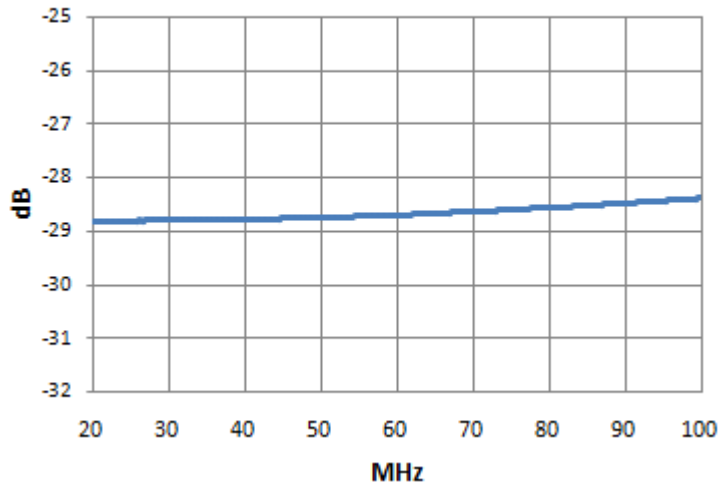
INPUT	8
OUTPUT	1
COUPLED (forward)	5
COUPLED (reverse)	4
GROUND	2,3,6,7

ELECTRICAL SPECIFICATIONS AT 25°C

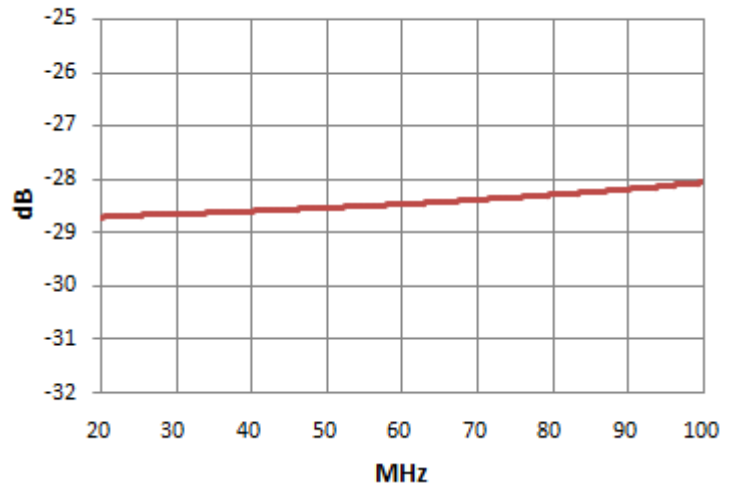
Parameter	Condition (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		20	—	100	MHz
Mainline Loss ¹	20-100	—	0.06	0.15	dB
Nominal Coupling	20-100	—	29±1.0	—	dB
Coupling Flatness(±)	20-100	—	±0.6	—	dB
Directivity	20-100	20	30	—	dB
Return Loss	20-100	—	36	—	dB
Input Power ²	20-100	—	—	55	W



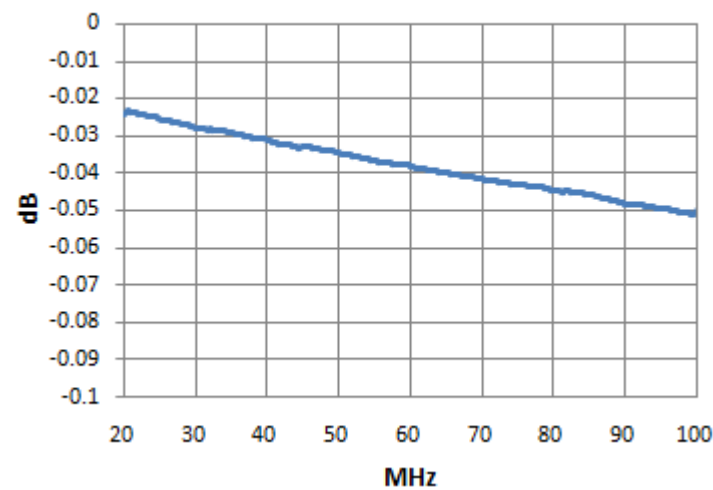
Coupling In-cpl fwd



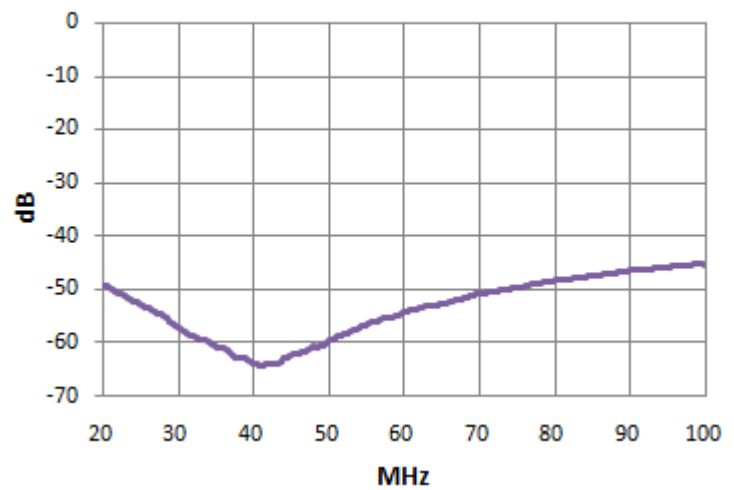
Coupling Out-cpl rev



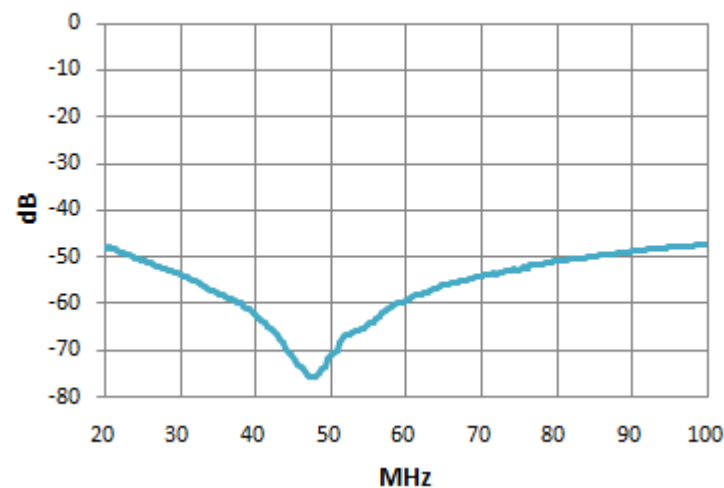
Mainline Loss In-Out



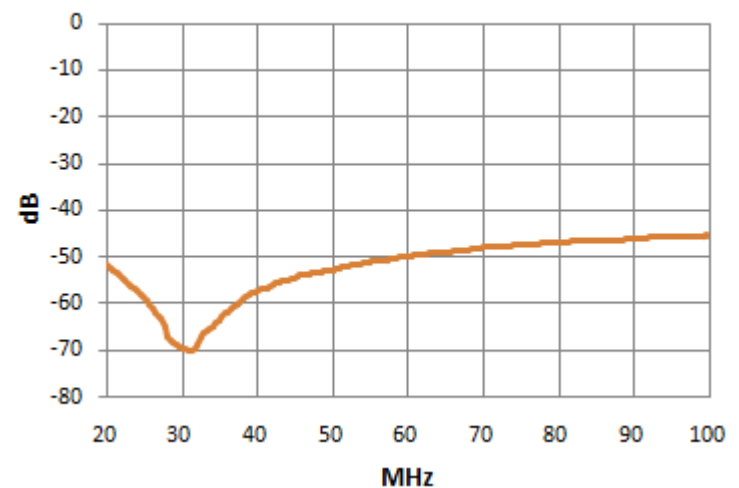
Return loss In

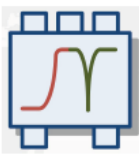


Return loss Out

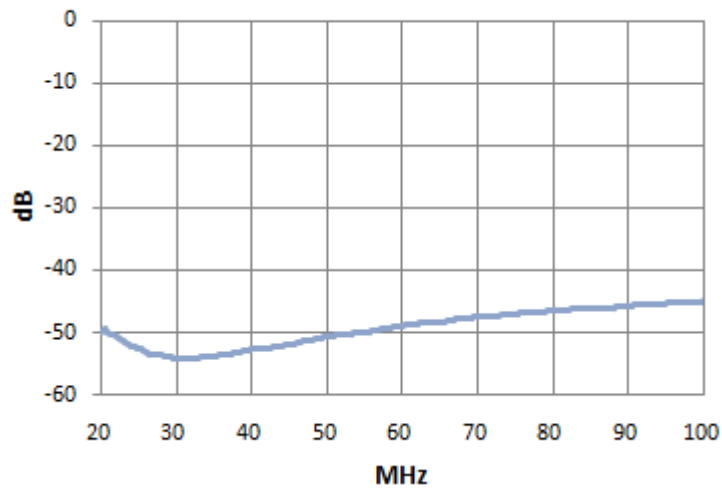


Return loss Cpl fwd

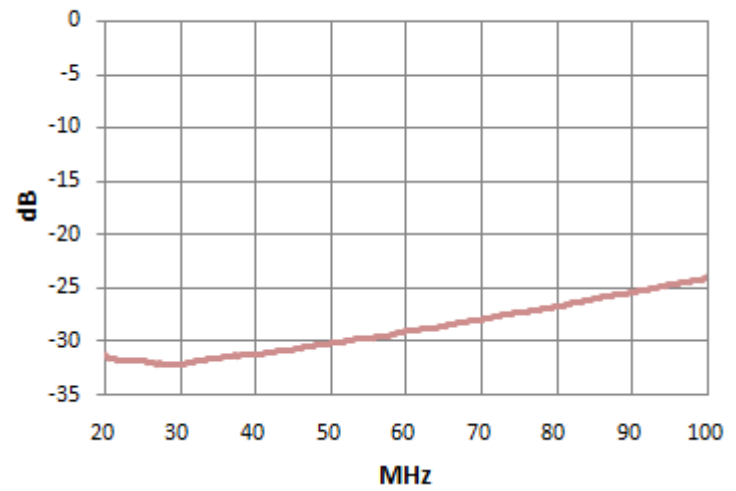




Return loss Cpl rev



Directivity in-cpl fwd



Directivity out-cpl rev

