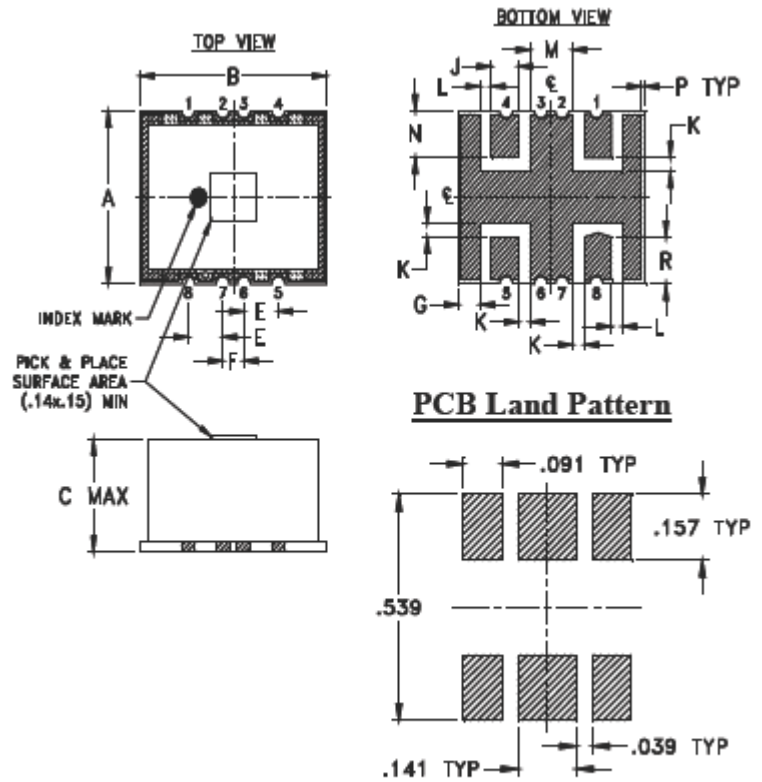


Outline drawing

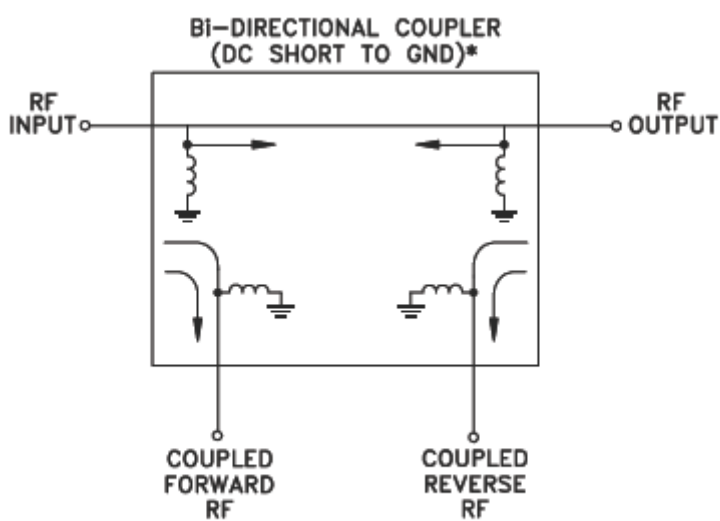
Feature:

20db coupler

- Surface mount
- Packaging 500pcs per reel.
- 260°C reflow compatible
- RoHS* compliant and lead free
- welding connect
- 50Ω systems



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



Schematic

Outline Dimensions (Inch mm)

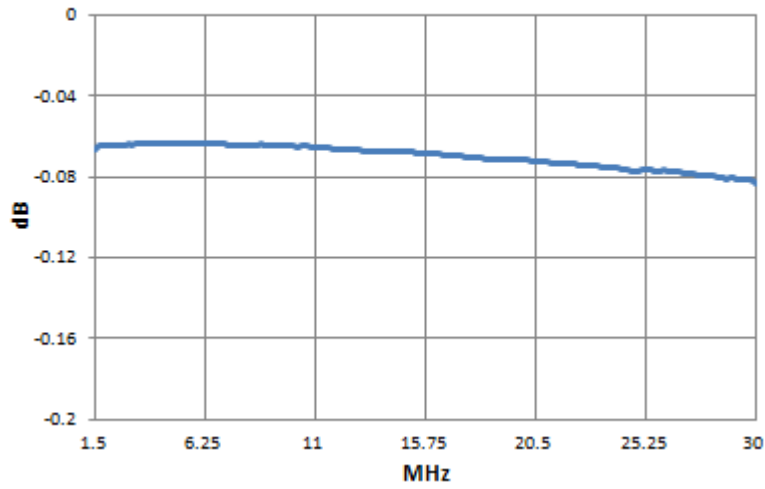
A	B	C	E	F	G	H	J
.50	.62	.36	.115	.070	.073	--	.090
12.70	15.75	9.14	2.92	1.78	1.85	--	2.29
K	L	M	N	P	Q	R	wt
.040	.037	.140	.135	.010	--	.135	grams
1.02	0.94	3.56	3.43	0.25	--	3.43	3.00

PIN CONFIGURATION

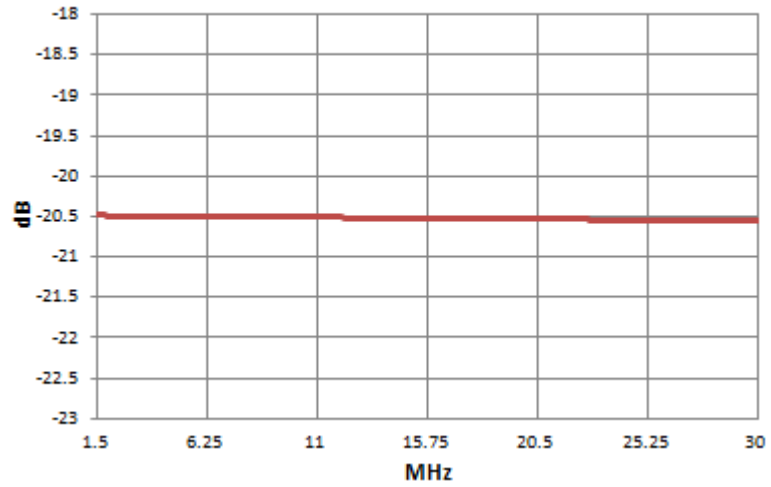
PIN	FUNCTION
8	Input
1	Output
5	Coupled(Forward)
4	Coupled(Reverse)
2,3,6,7	Ground

Electrical Specifications: TA=25°C, Zo=50Ω					
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Coupling	1.5-30MHz	dB	19.5	20.5	21.5
Coupling Flatness(±)	1.5-30MHz	dB	----	0.05	0.2
Mainline Loss (above theoretical 0.044)	1.5-30MHz	dB	----	0.06	0.25
Input return loss	1.5-30MHz	dB	20	25	---
Output return loss	1.5-30MHz	dB	20	25	---
Coupling Return Loss	1.5-30MHz	dB	18	24	---
Directivity	1.5-30MHz	dB	22	33	---
RF Power Rating (max)	50W				
DC Current Rating (max)	800mA				
Test Impedance (50Ω,75Ω, etc.)	50OHM				
Operating Temperature	-40°C to +85°C				
Storage Temperature	-55C to +100				

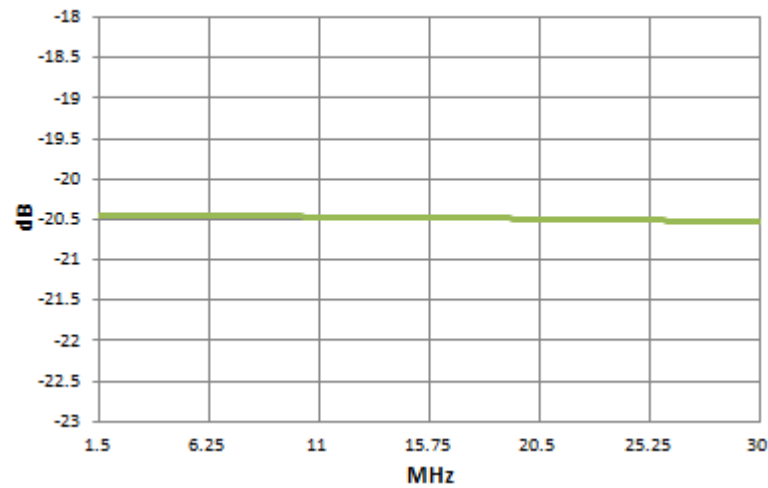
Mainline Loss In_Out



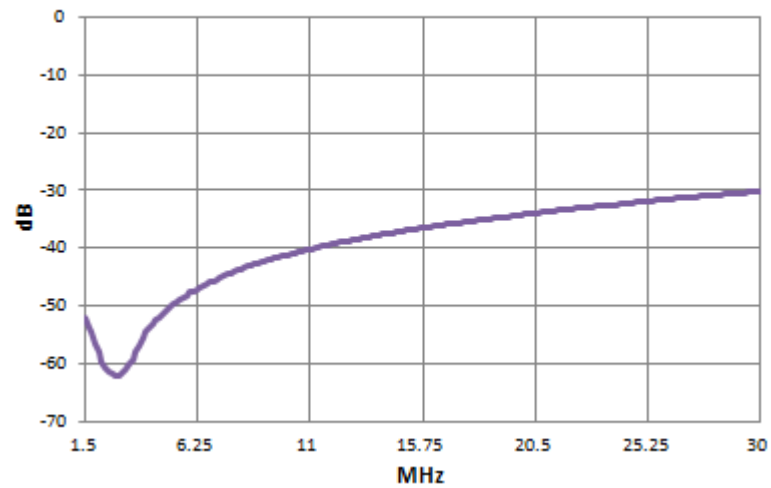
Coupling In_Cpl Fwd



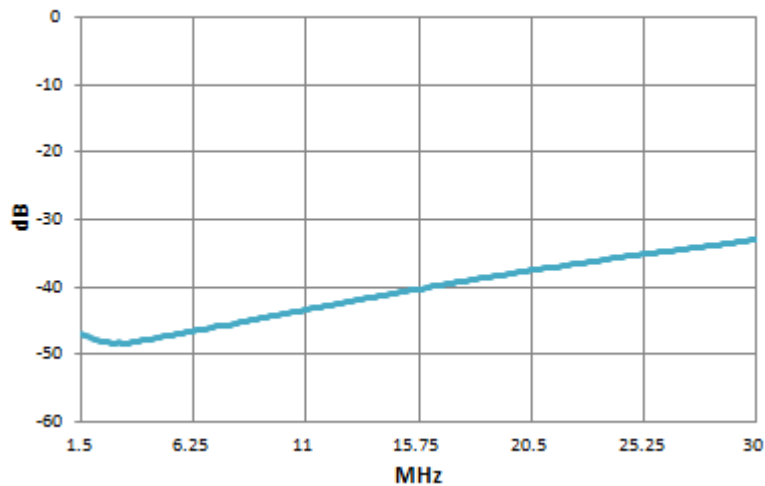
Coupling Out_Cpl Rev



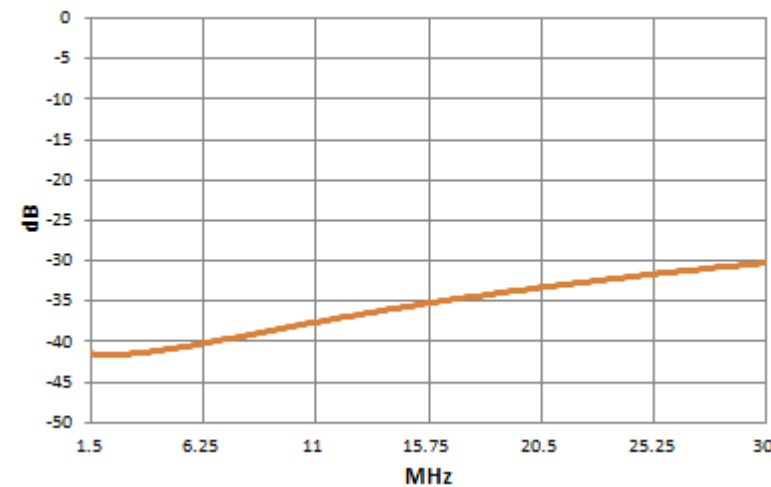
Directivity Out_Cpl Fwd



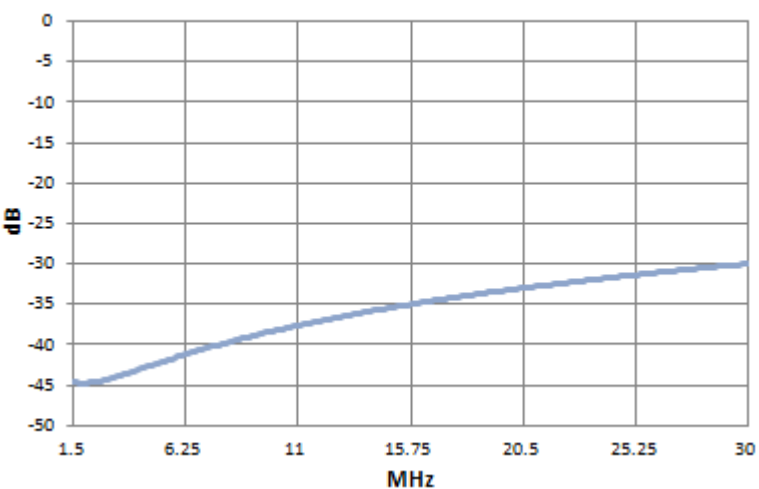
Directivity In_Cpl Rev



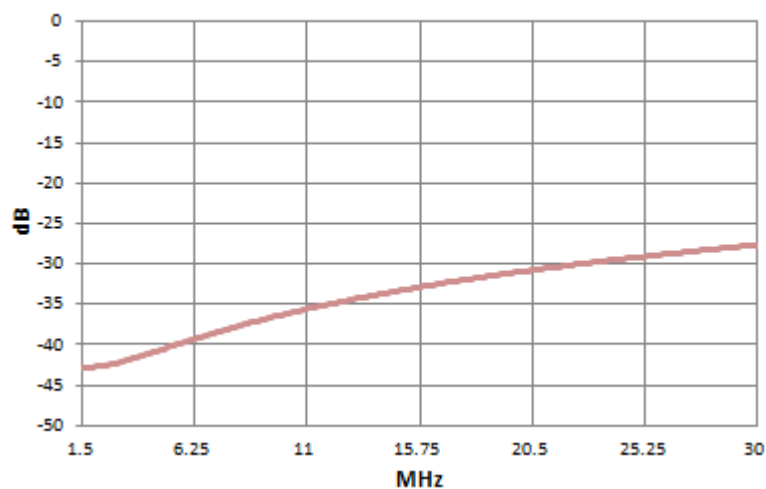
Return Loss In



Return Loss Out



Return Loss Cpl Fwd



Return Loss Cpl Rev

