

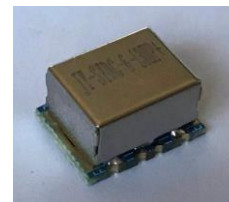
Coupler (50-1000MHz)

Features

- wideband, 50 to 1000 MHz
- high power, 10W max.
- wideband multi-octave
- excellent coupling flatness, 0.1 dB typ.

Applications

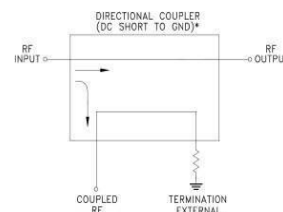
- VHF/UHF
- signal monitoring
- communications
- military mobile



50Ω 6 dB Coupling

Transformer Electrical Specifications

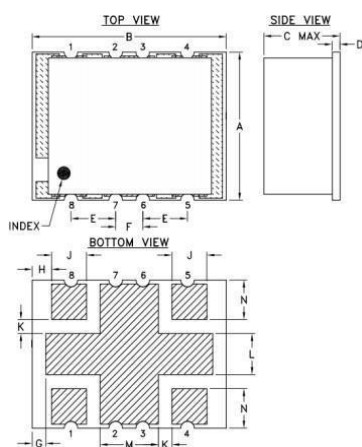
Freq. range (MHz)	Mainline Loss Typ max	Nominal Coupling	Directivity Typ max	Return Loss
50-1000	2.23 .8	5.6 ± 0.2	21 26	19



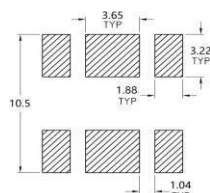
Typical Performance Data

Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) in-cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
50.0	2.182	5.685	26.59	18.39	17.96	18.03
100.0	.152	.695	26.58	18.93	18.43	18.34
200.0	202.	715.	26.16	19.28	18.58	18.00
400.0	372.	685.	24.99	19.11	17.91	16.53
512.0	512.	625.	24.41	18.49	17.05	15.72
600.0	632.	595.	24.02	17.67	16.38	15.16
750.0	873.	535.	23.41	16.07	15.29	14.63
900.0	193.	495.	22.65	14.52	14.60	14.36
1000.0	46	54	21.99	13.58	14.22	14.33

Outline Drawing

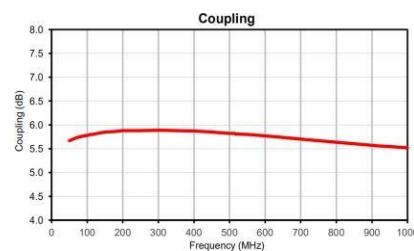
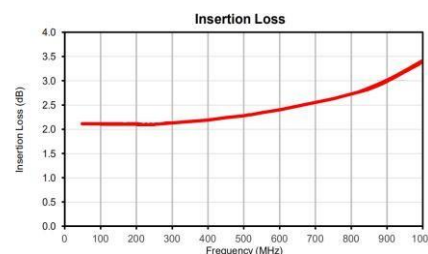


PCB Land Pattern



Suggested L layout, Tolerance to be within ±0.05mm

Pin Connections	
Input	8
Output	1
Coupled	5
External 50Ω	4
Ground	2,3,6,7



Outline Dimensions: Unit (mm)			
AB	9.6512	HN	1.272
CD	706.93	M	413.56
EF	1.002	J	2.29
G	921.78		
	0.89	KL	1.022
		P	97

Maximum Ratings	
Operating Temperature -40° C to 85° C	
Storage Temperature -55° C to 100° C	
Power Input (as a splitter) 10W max.	
Case temperature is defined as temperature on ground leads. Permanent damage may occur if any of these limits are exceeded.	

