



Features

- wideband, 5-1000 MHz
- low mainline loss, 0.8 dB typ.
- high directivity, 40 dB typ.
- aqueous washable

Applications

- communications
- cable tv

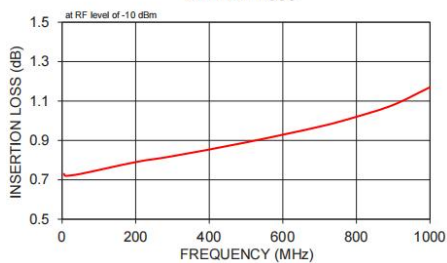
Directional Coupler Electrical Specifications

FREQ. (MHz)	COUPLING (dB)		INSERTION LOSS dB		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT, W
	Nom.	Flatness	Min.	Max.	Min.	Max.	Typ.	Max.
5-1000	10.5±0.5	±1.0	0.8	1.5	13	40	1.20	1.0

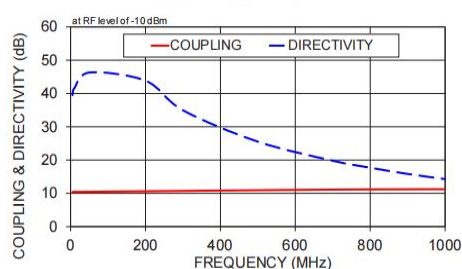
Typical Performance Data

Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
5.00	0.73	10.45	39.49	22.96	30.01	20.21
10.00	0.72	10.44	41.58	23.49	31.11	20.71
50.00	0.73	10.47	46.29	23.98	31.76	20.95
200.00	0.79	10.62	43.84	22.59	26.52	18.33
300.00	0.82	10.73	34.95	21.24	24.15	16.40
500.00	0.89	10.94	25.53	19.19	20.98	13.59
700.00	0.97	11.12	19.79	18.06	19.06	11.89
800.00	1.02	11.18	17.70	17.82	18.42	11.33
900.00	1.08	11.22	15.83	17.78	17.99	10.91
1000.00	1.17	11.24	14.27	17.91	17.72	10.60

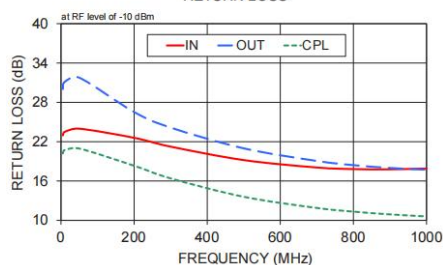
MAINLINE LOSS



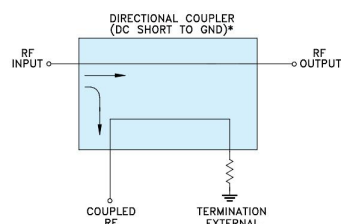
COUPLING & DIRECTIVITY



RETURN LOSS

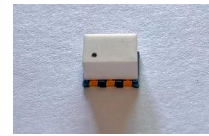


Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) AND EXTERNAL TERMINATION.

JY-ADC-10-4+



50Ω 5 to 1000 MHz

Maximum Ratings

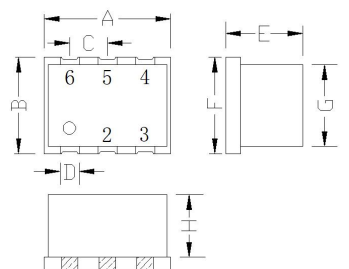
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

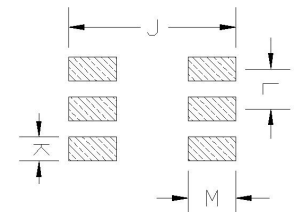
Pin Connections

INPUT	1
OUTPUT	6
COUPLED	3
GROUND	2
50Ω TERM EXTERNAL	4
ISOLATE (DO NOT USE)	5

Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±0.5

Outline Dimensions: Unit (mm)

A	8.70	J	8.00
B	6.50	K	1.50
C	2.54	G	5.50
D	1.30	H	4.30
E	5.40	L	2.54
F	6.50	M	2.00
WT	0.5g		