

Features

- wideband, 5-1000 MHz
- low mainline loss, 0.6 dB typ.
- high directivity, 24 dB typ.

Applications

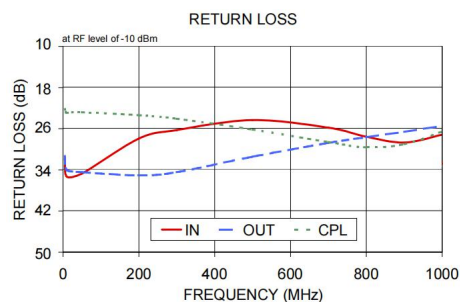
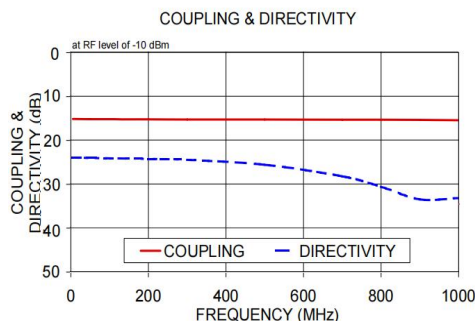
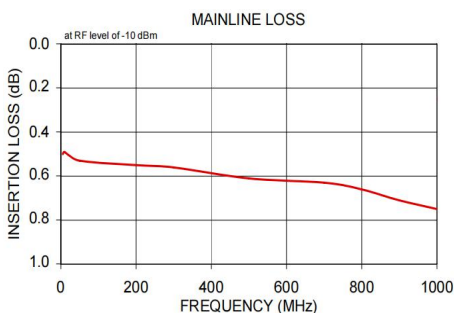
- cable tv
- communications

Directional Coupler Electrical Specifications

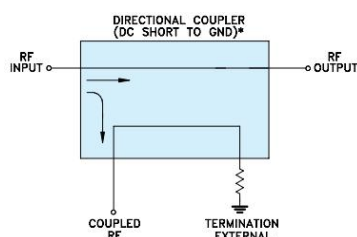
FREQ. (MHz)	COUPLING (dB)		INSERTION LOSS ABOVE 3.0 dB		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT, W	
	Nom.	Flatness	Min.	Max.	Min.	Max.		L Max.	MU Max.
5-1000	15.5±0.5	±0.5	0.6	1.2	17	28	1.20	1.0	1.0

Typical Performance Data (TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +25°C)

Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
5	0.50	15.81	24.01	31.88	31.38	22.25
10	0.49	15.79	23.99	35.41	34.12	22.95
50	0.53	15.83	24.08	34.79	34.52	22.89
200	0.55	15.88	24.31	28.00	35.16	23.47
300	0.56	15.90	24.52	26.35	34.54	24.15
500	0.61	15.92	25.64	24.41	31.51	26.25
700	0.63	15.94	28.27	25.88	28.84	28.66
800	0.66	15.96	30.62	27.63	27.73	29.71
900	0.71	16.02	33.51	28.77	26.69	29.10
1000	0.75	16.09	33.23	27.25	25.54	26.64

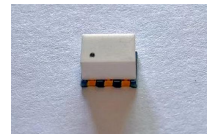


Electrical Schematic



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

JY-ADC-15-4+



50Ω 5 to 1000 MHz

Maximum Ratings

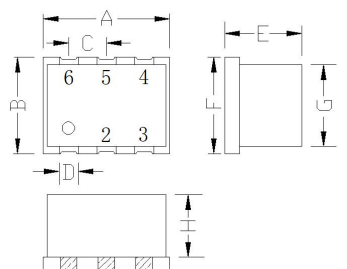
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

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

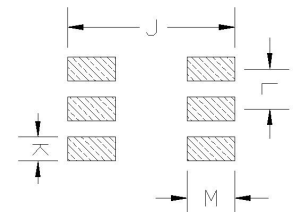
Pin Connections

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 ±0.02

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		