



Features

- useable to 1500 MHz
- low mainline loss, 0.5 dB typ.
- high directivity, 26 dB typ.
- aqueous washable

Applications

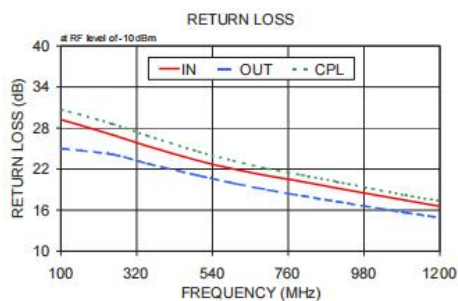
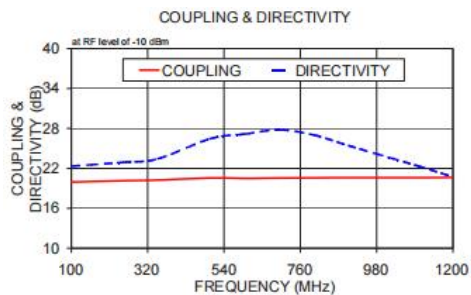
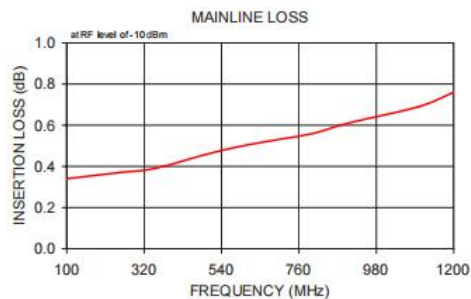
- cable tv

Directional Coupler Electrical Specifications

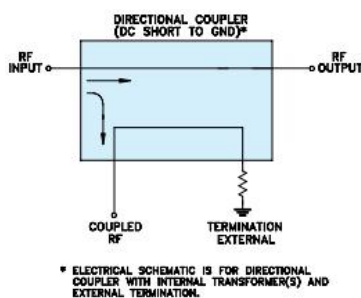
FREQ. (MHz)	COUPLING (dB)		INSERTION LOSS ABOVE 3.0 dB		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT, W	
	Nom.	Flatness	Min.	Max.	Min.	Max.		L Max.	MU Max.
100-1200	20.0±0.75	±0.7	0.5	1.1	13	26	1.17	1.0	1.0

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

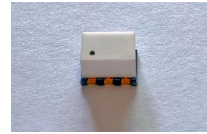
Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
100	0.34	19.94	22.33	29.24	25.01	30.72
250	0.37	20.14	22.91	26.99	24.13	28.60
350	0.39	20.24	23.45	25.38	22.81	26.88
500	0.46	20.56	26.44	23.21	21.05	24.55
600	0.50	20.50	27.16	22.03	19.94	23.24
700	0.53	20.55	27.78	21.02	18.96	22.06
800	0.56	20.58	27.00	20.17	18.09	21.12
900	0.61	20.61	25.40	19.23	17.25	20.16
1100	0.69	20.61	22.34	17.44	15.64	18.19
1200	0.76	20.63	20.72	16.56	14.90	17.35



Electrical Schematic



JY-ADC-20-12+



50Ω 100 to 1200 MHz

Maximum Ratings

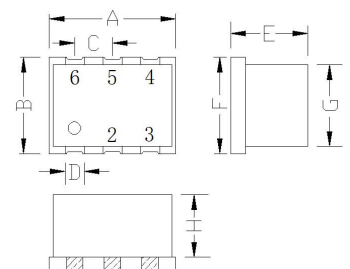
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

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

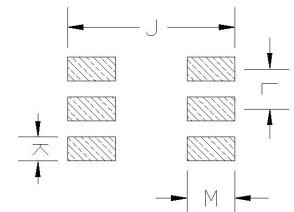
Pin Connections

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		