

Directional Coupler

Features

- wideband, 5-900 MHz
- low mainline loss, 0.8 db typ.
- excellent coupling flatness, ± 0.2 typ.
- aqueous washable

Applications

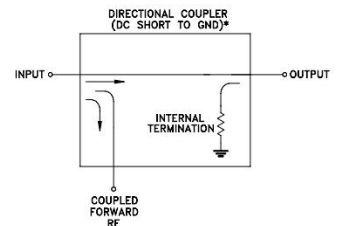
- communications
- cable tv

JY-ADC-10-1R+



50 Ω 5 to 900 MHz

electrical schematic



Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		INSERTION LOSS (dB)			DIRECTIVITY (dB)			VSWR (:1)	POWER INPUT, W	
	Nom.	Flatness	L Typ.	M Max.	U Typ.	L Typ.	M Typ.	U Typ.		L Max.	MU Max.
5-900	10.5 $\pm$ 0.5	$\pm$ 0.5	0.7	1.2	0.8	1.2	0.9	1.5	1.3	1.0	1.0

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

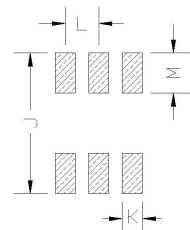
Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
5.00	0.73	10.46	39.26	23.33	32.99	20.92
25.00	0.73	10.47	41.83	23.80	33.86	21.15
50.00	0.72	10.46	42.49	2.65	33.70	20.95
100.00	0.72	10.46	41.16	23.19	31.77	20.42
200.00	0.76	10.54	35.13	21.89	27.73	18.85
300.00	0.82	10.62	30.28	20.41	24.77	17.13
450.00	0.75	10.54	24.90	18.54	21.73	14.98
600.00	0.86	10.71	20.67	17.18	19.54	13.38
750.00	0.80	10.63	17.31	16.29	17.92	12.21
900.00	1.03	10.88	14.39	15.79	16.77	11.46

Maximum Ratings

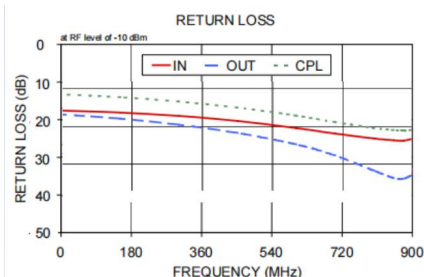
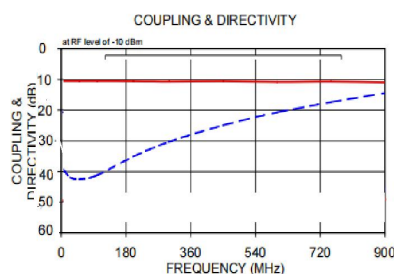
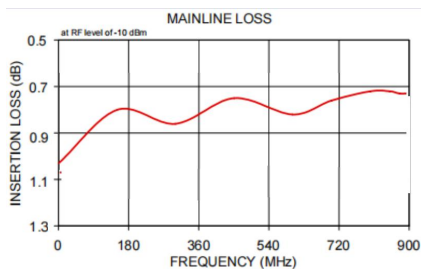
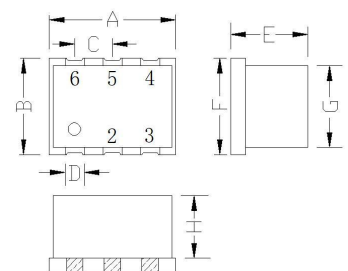
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

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

PCB Land Pattern



Outline Drawing



Pin Connections

INPUT	1 (input)
OUTPUT	6 (output1)
COUPLED	3 (output2)
GROUND	2,5 (output3)
SOLATE (DO NOT USE)	4

Outline Dimensions: Unit (mm)

A	8.70	G	5.50
B	6.50	H	4.30
C	2.54	L	2.54
D	1.30	J	8.00
E	5.40	K	1.50
F	6.5	M	2.00
WT	3g		