

Directional Coupler

HT-ADC-10-1R+



50Ω 5 to 900 MHz

Features

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

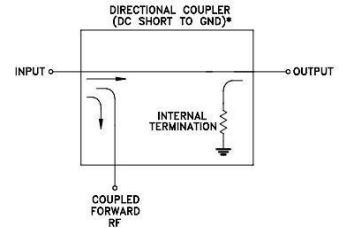
Applications

- communications
- cable tv

Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		INSERTION LOSS (dB)			DIRECTIVITY (dB)			VSWR (1)	POWER INPUT, W							
	Nom.	Flatness	L Typ.	M Typ.	U Typ.	L Typ.	M Typ.	U Typ.		L Max.	MU Max.						
5-900	10.5±0.5	±0.5	0.7	1.2	0.8	1.2	0.9	1.5	40	25	30	20	18	12	1.3	1.0	1.0

electrical schematic



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

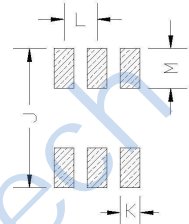
Maximum Ratings

Operating Temperature -40°C to 85°C

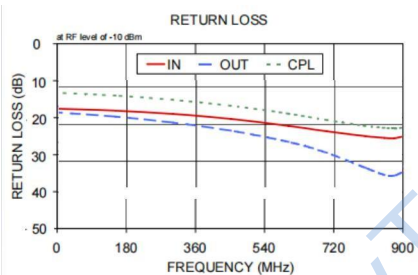
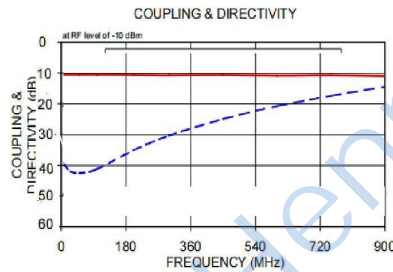
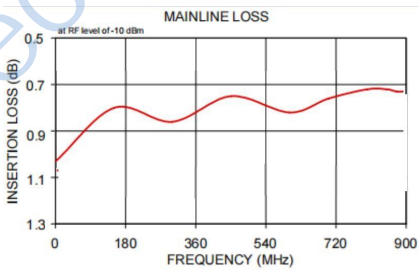
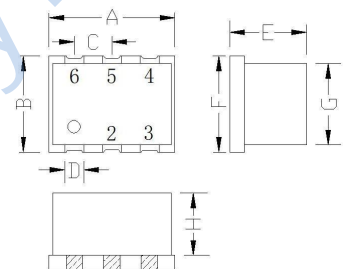
Storage Temperature -55°C to 100°C

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		