

Features

- power handling up to 4 Watt.
- low mainline loss, 0.20 dB typ.
- high directivity, 25 dB typ.
- excellent VSWR, 1.2:1 typ.
- aqueous washable

Applications

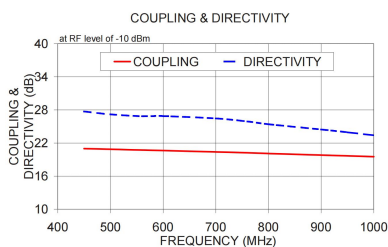
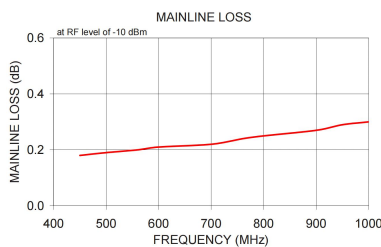
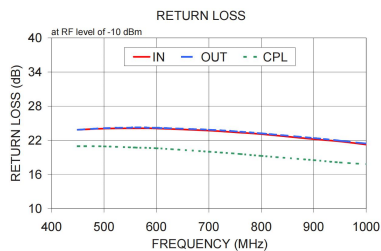
- cable tv
- VHF/UHF receivers
- cellular

Electrical Specifications at 25°C

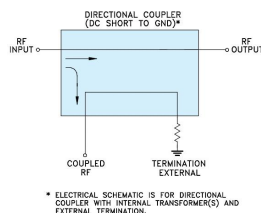
Parameter	Condition(MHz)	Min.	Typ.	Max.	Unit
Frequency Range		450	-	1000	MHz
Mainline Loss (above theoretical 0.05 dB)	450 700 1000	-	0.2 0.2 0.3	0.3 0.4 0.5	dB
Coupling	450-1000 450 700 1000	19.0 18.4 17.0	19.7 20.7 20.0 19.0	22.2 21.6 21.0	dB
Coupling Flatness(±)	450-700 700-1000	-	0.4 0.5	0.6 0.7	dB
Directivity	450 700 1000	18 16 13	22 20 18	-	dB
Return Loss (Input)	450 700 1000	20 19 16	24 25 23	-	dB
Return Loss (Output)	450 700 1000	20 18 15	24 25 23	-	dB
Return Loss (Coupling)	450 700 1000	18 17 14	21 20 18	-	dB
Input Power	450-1000			4.0	w

Typical Performance Data

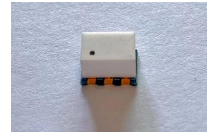
Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
450	0.18	21.90	27.72	23.86	23.86	20.98
500	0.19	21.87	27.19	24.06	24.14	20.94
560	0.22	21.72	26.86	24.09	24.24	20.73
600	0.23	21.63	26.88	24.00	24.19	20.61
700	0.24	20.38	26.45	23.71	23.87	20.01
760	0.25	20.23	25.91	23.35	23.52	19.59
800	0.28	20.10	25.41	23.09	23.23	19.26
900	0.29	19.88	24.46	22.31	22.40	18.51
950	0.30	19.78	23.94	21.81	21.94	18.12
1000	0.31	19.58	23.40	21.25	21.43	17.85



Electrical Schematic



JY-ADC-20-13+



50Ω 450 to 1000 MHz

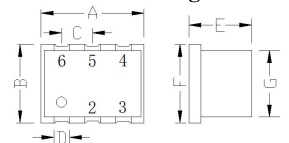
Maximum Ratings

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

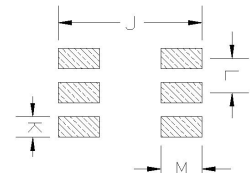
Pin Connections

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		

Suggested PCB Layout

