

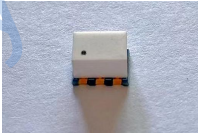
Features

- wideband, 10-500 MHz
- low mainline loss
- high directivity

Applications

- VHF/UHF
- reflective power measurements
- communications
- signal sampling

HT-ADC-26-52+



50Ω 10 to 500 MHz

Directional Coupler Electrical Specifications					
FREQ. (MHz)	COUPLING (dB)		INSERTION LOSS (dB)		VSWR (:1)
	Nom.	Flatness	Min.	Max.	
					Typ.
10-500	26.0±0.5	±0.9	0.15	0.5	11 35 1.2
					LM Max. U Max.

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.

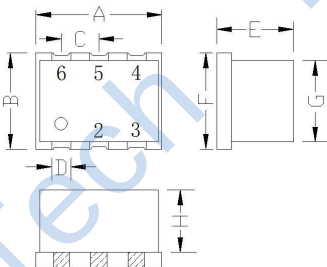
Pin Connections

INPUT	1
OUTPUT	6
COUPLED	3
GROUND	2
50Ω TERM EXTERNAL	4
ISOLATE (DO NOT USE)	5

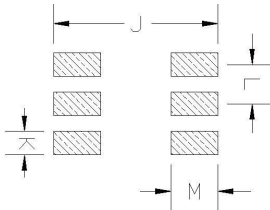
Typical Performance Data

Freq. (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
10	0.14	26.49	30.14	31.50	31.90	31.60
50	0.12	26.51	30.50	35.75	36.35	35.18
100	0.12	26.48	24.68	34.14	34.71	33.55
150	0.13	26.41	21.27	32.10	32.76	31.53
200	0.15	26.29	18.96	30.57	31.12	29.61
250	0.16	26.14	20.19	29.15	29.75	27.93
300	0.18	25.97	18.67	27.68	28.08	26.51
350	0.20	25.77	13.46	26.65	27.05	25.29
400	0.22	25.56	12.37	25.73	25.86	24.24
500	0.27	25.14	11.00	24.41	24.06	22.45

Outline Drawing

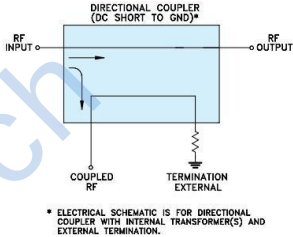


PCB Land Pattern



Suggested Layout, Tolerance to be within ±0.2

Electrical Schematic



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

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		