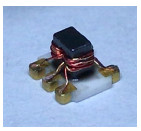
HenryTech

Bi-Directional Coupler

HT-TCD-9-1W

Features

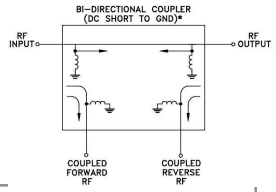
- wideband, 5 to 2000 MHz
- low mainline loss, 1.2 dB typ. (5-1000 MHz)
- aqueous washable
- leads for excellent solderability
- high power handling, 1 Watt max..



Applications

- GPS、cellular、satellite distribution、cable tv

50Ω **8.9 dB Coupling**



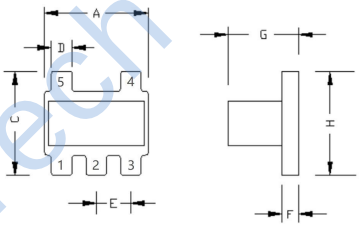
Transformer Electrical Specifications

Freq. range (MHz)	Mainline Loss1 (above theoretical 0.1 dB) min	max	VSWR min	max	Nominal Coupling	Input Power(w)
5~2000	1.2	2.5	1.3	1.6	8.9±0.5	1.0

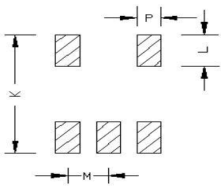
Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Freq.(MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB) IN	OUT	CPL
5.0	1.11	8.96	21	19	27	18
200.0	1.14	8.97	20	20	30	20
600.0	1.26	8.67	15	21	22	20
800.0	1.38	8.61	13	20	22	18
1000.0	1.54	8.46	11	18	22	17
1200.0	1.74	8.57	10	16	21	15
1400.0	2.04	8.57	9	14	22	14
1600.0	2.32	8.61	8	12	21	12
2000.0	3.07	8.76	7	9	22	10

Outline Drawing



PCB Land Pattern



Suggested L ayout, Tolerance to be within ±0.05mm

Outline Dimensions (mm)

A	3.81	N	-
B	-	M	1.27
C	3.81	P	0.76
D	0.76	J	-
E	1.27	K	4.81
F	0.61	L	1.30
G	2.61		
H	3.81		
WT	0.1		

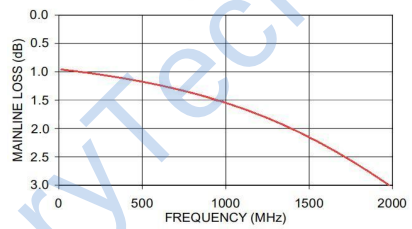
Pin Connections	
Input	1
Output	5
Coupled	3
50Ω TERM EXTERNAL	4
Ground	2

Maximum Ratings

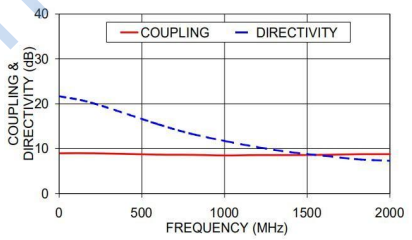
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter) 1W max.	

Case temperature is defined as temperature on ground leads.
Permanent damage may occur if any of these limits are exceeded.

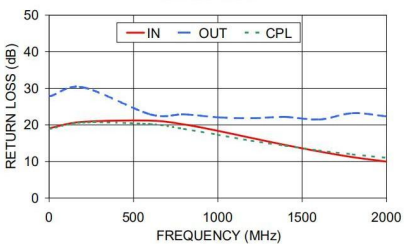
MAINLINE LOSS



COUPLING & DIRECTIVITY



RETURN LOSS



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