

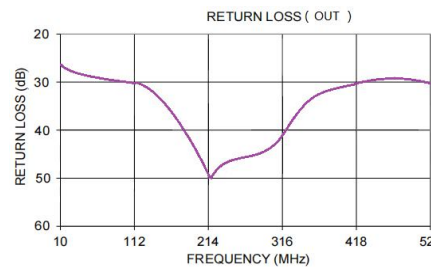
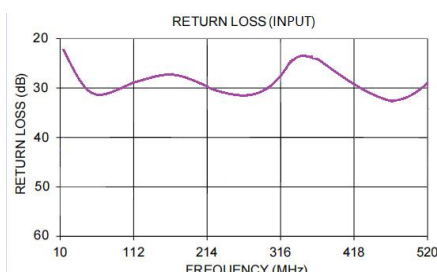
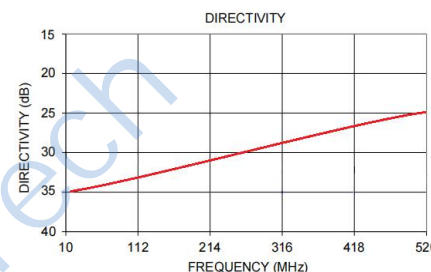
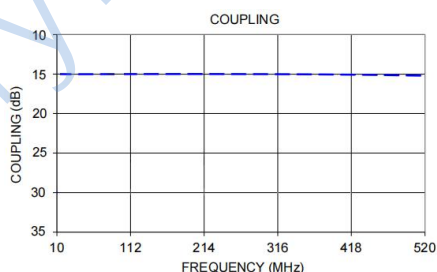
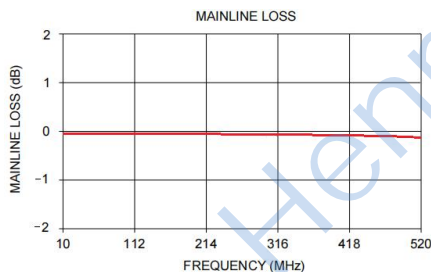
Bi-Directional Coupler

Features

- wideband, 10 to 520 MHz
- high power, 40 Watt max.
- low mainline loss, 0.5 dB typ.
- good VSWR

Typical Performance Data

FREQUENCY (MHz)	Mainline Loss (dB) IN-OUT	Coupling (dB) In-Cpl Fwd	Directivity (dB) In-Cpl Rev	Return Loss (dB)		
				In	OUT	Cpl Fwd
10.0	-0.23	-14.99	-34	-22	-25	-23
100.0	-0.18	-14.84	-33	-28	-28	-29
200.0	-0.16	-14.84	-31	-29	-38	-31
300.0	-0.19	-14.87	-29	-24	-25	-25
400.0	-0.20	-14.88	-27	-28	-29	-33
450.0	-0.24	-14.95	-26	-31	-35	-37
520.0	-0.29	-15.08	-25	-30	-32	-34



Maximum Ratings

Operating Temperature -40°C to 65°C
Case*

Storage Temperature -55°C to 100°C

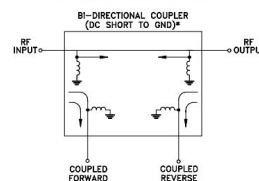
RF Power 40W

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

HT-SYBDC-15-52VHP+

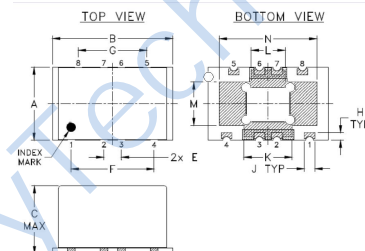
50Ω 15 dB Coupling 10 to 520 MHz

Electrical Schematic

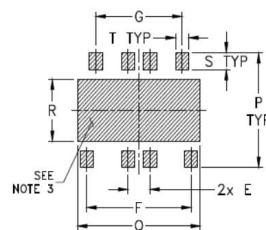


Outline Drawing

Pin Connections	
Input	1
Output	8
Coupled (Forward)	4
Coupled (Reverse)	5
Ground	2,3,6,7



PCB Land Pattern



Dimensions are in metric (mm)					
A	B	C	E	F	G
11.0	17.53	10.54	2.54	12.09	10.01
H	J	K	L	M	N
1.14	1.52	7.01	4.93	6.53	14.22
P	Q	R	S	T	
12.07	14.25	6.55	1.75	1.55	