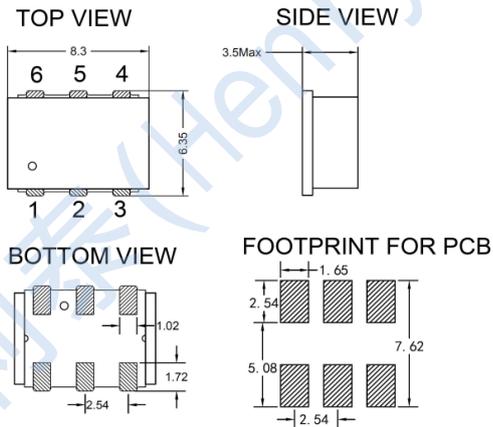




450-1000Mhz 50Ω 19.7 dB Coupler

HT-ADC-20-13+

Mechanical Dimensions:



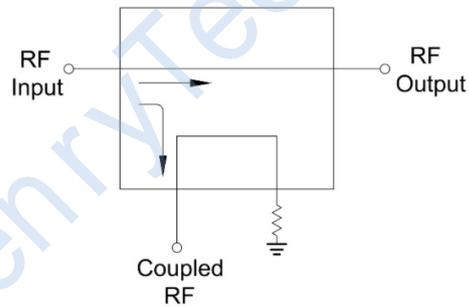
Notes:

- 1: Dimensions in mm.
- 2: Tolerance $\pm 0.3\text{mm}$ unless otherwise noted.

Ports Configuration:

Input	1
Output	6
Coupled	3
Ground	2
50Ω Term External	4
Isolation (Not used)	5

Schematic:



Maximum Ratings:

Parameters	Conditions	Unit	Min	Max
RF Power		Watt		4
DC Current		mA		500
Operating Temperature Range		Degree Cel	-40	85
Storage Temperature Range		Degree Cel	-55	100
Moisture Sensitivity Level				1

Ordering Information:

Part Description	Details
HT-ADC-20-13+	800 per reel



450-1000MHz 50Ω 19.7dB Coupler

HT-ADC-20-13+

Electrical Specifications: Zo=50 Ohm Pin = 0 dBm

Parameter	Test Conditions	Unit	Min	Typical	Max
Frequency Range	-	MHz	450	~	1000
Mainline Loss	450MHz	dB	-	0.2	0.3
Mainline Loss	700MHz	dB	-	0.2	0.4
Mainline Loss	1000MHz	dB	-	0.3	0.5
Coupling	450-1000MHz	dB	-	19.7	-
Coupling	450MHz	dB	19	20.7	22.2
Coupling	700MHz	dB	18.4	20	21.6
Coupling	1000MHz	dB	17	19	21
Coupling Flatness	450-700MHz	dB	-	±0.4	±0.6
Coupling Flatness	700-1000MHz	dB	-	±0.5	±0.7
Directivity	450MHz	dB	18	22	-
Directivity	700MHz	dB	16	20	-
Directivity	1000MHz	dB	13	18	-
Return Loss (Input)	450MHz	dB	20	24	-
Return Loss (Input)	700MHz	dB	18	25	-
Return Loss (Input)	1000MHz	dB	16	23	-
Return Loss (Output)	450MHz	dB	20	24	-
Return Loss (Output)	700MHz	dB	18	25	-
Return Loss (Output)	1000MHz	dB	15	23	-
Return Loss (Coupling)	450MHz	dB	18	21	-
Return Loss (Coupling)	700MHz	dB	17	20	-
Return Loss (Coupling)	1000MHz	dB	14	18	-

Notes:

1: Specifications guaranteed over the operating temperature range.

Typical Performance Curves: