

## H3-TCD-12-222X+

5-2250MHz 50Ω 12dB Coupler

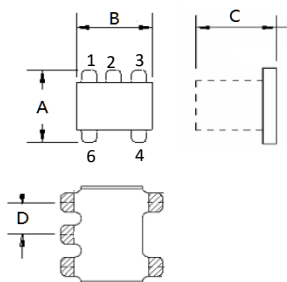
### APPLICATIONS

- Ideally suited for CATV Broadband, VHF/UHF and cellular applications.

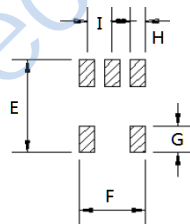
### FEATURES

- Surface mount
- 12dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

### DIMENSIONS



### Land Pattern



A	B	C
3.81	3.81	2.90
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

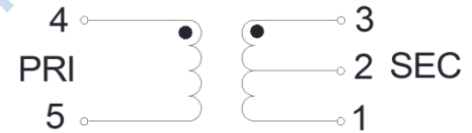
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

### ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0(P1/P2/P3/P4)			50/50/50/50		Ohm
Mainline Loss	5MHz			1.0	dB
	950MHz			1.1	dB
	2250MHz			3.6	dB
Coupling	5-2250MHz	11.8	12.6	13.4	dB
Return Loss (Input)	5MHz		21.0		dB
	950MHz		22.0		dB
	2250MHz		25.0		dB
Return Loss (Output)	5MHz		25.0		dB
	950MHz		17.0		dB
	2250MHz		14.0		dB
Return Loss (Coupling)	5MHz		24.0		dB
	950MHz		23.0		dB
	2250MHz		22.0		dB
Directivity	5MHz	17.0	25.0		dB
	950MHz	11.0	17.0		dB
	2250MHz	6.0	13.0		dB

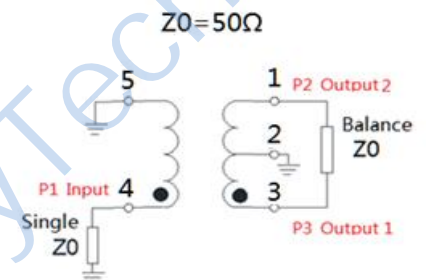
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

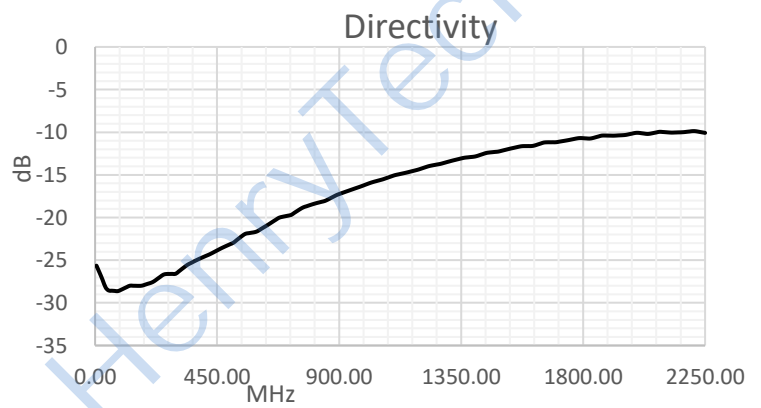
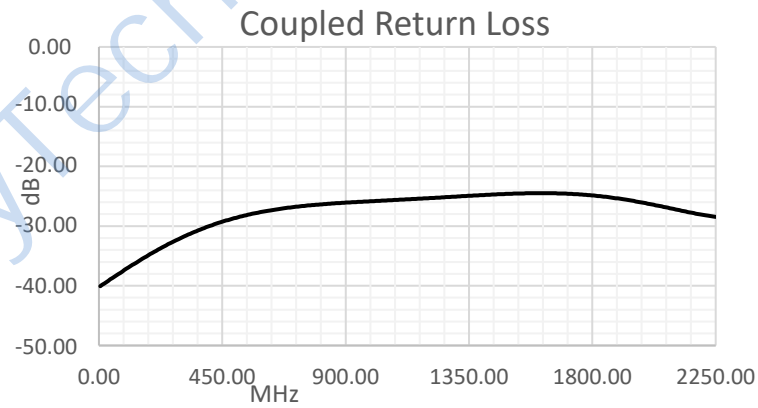
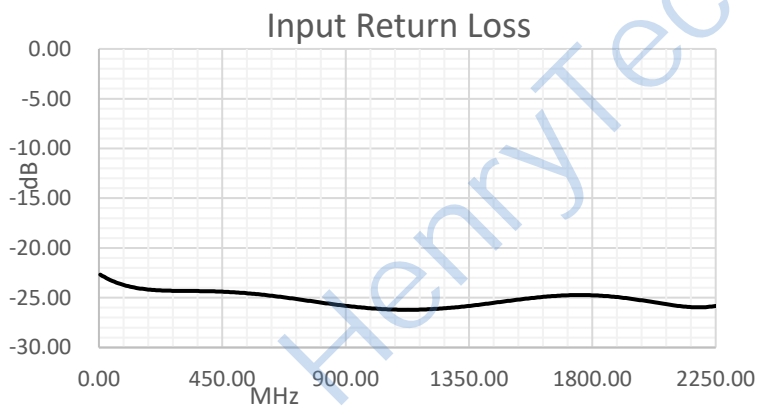
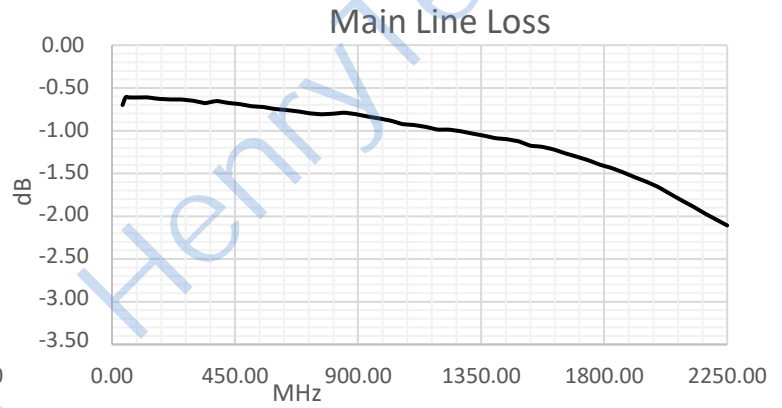
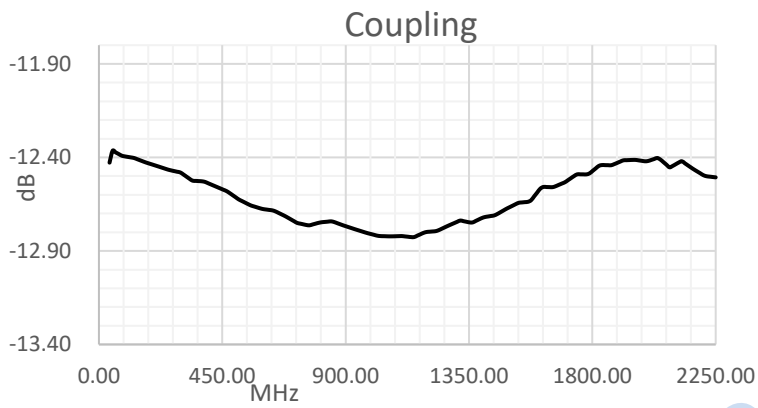
### APPLICATION & TEST CIRCUIT



### ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input Power	250mW MAX
DC Current	30mA MAX
Operating Temperature Range	-40 to 85°C

## TEST CURVE



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