

H3-ADT2-1T-1P

8-600MHz 50Ω 1:2 Balun

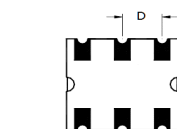
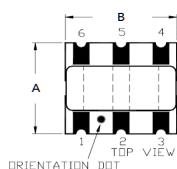
• APPLICATIONS

• Ideally suitable for CATV broadband applications.

• FEATURES

- Surface mount
- Impedance ratio: 1:2
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



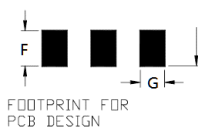
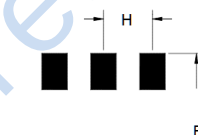
BOTTOM VIEW

A	B	C
6.40	7.30	2.70
D		
2.54		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

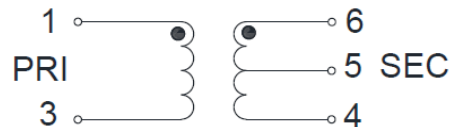
Land Pattern



FOOTPRINT FOR PCB DESIGN

E	F	G
7.62	1.75	1.27
H		
2.54		

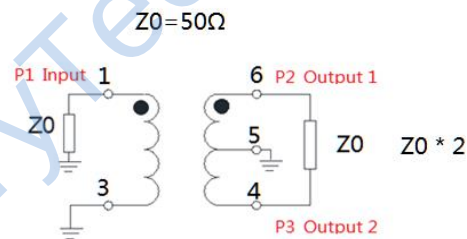
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Primary
2	NOT USED
3	Primary Dot
4	Secondary Dot
5	Secondary Centre Tap
6	Secondary

APPLICATION & TEST CIRCUIT



ELECTRICAL SPECIFICATIONS@25°C:

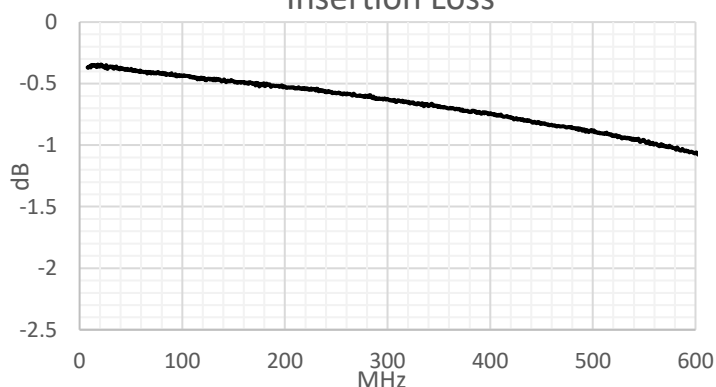
Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			50/50/50		Ohm
Insertion Loss	8-600MHz		1.1	3.0	dB
	10-400MHz		0.8	2.0	dB
	13-300MHz		0.6	1.0	dB
Return Loss	8-600MHz	5.0	9.6		dB
	10-400MHz	8.0	12.7		dB
	13-300MHz	12.0	15.2		dB
Amplitude UnBalance	8-600MHz		1.3	±2	dB
	10-400MHz		0.6	±1	dB
	13-300MHz		0.3	±1	dB
Phase UnBalance	8-600MHz		6	±9	°
	10-400MHz		4	±7	°
	13-300MHz		3	±6	°

ABSOLUTE MAXIMUM RATINGS

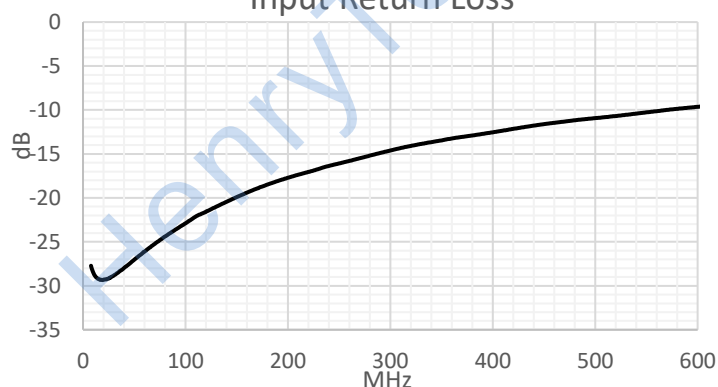
Parameter	Value
RF Power	1W
DC Current	240mA
Operating Temperature Range	-40 to 85°C

TEST CURVE

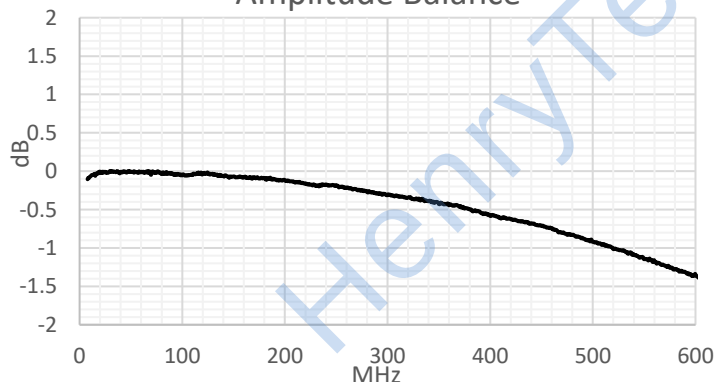
Insertion Loss



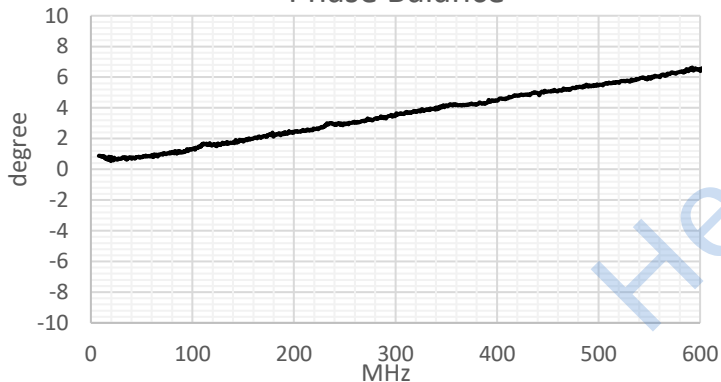
Input Return Loss



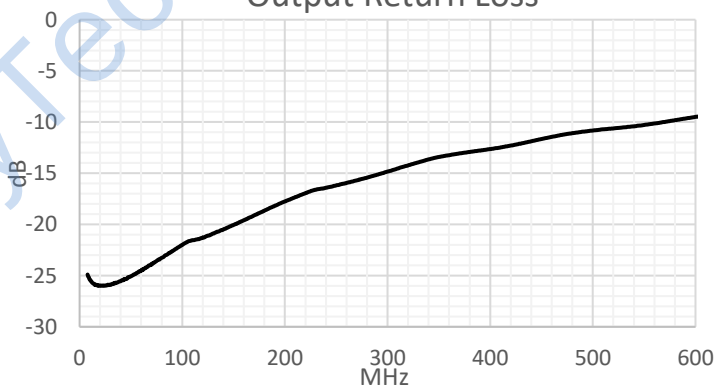
Amplitude Balance



Phase Balance



Output Return Loss



CMRR

