

H3-MABACT0071

3-200MHz 75Ω 1:1 Balun

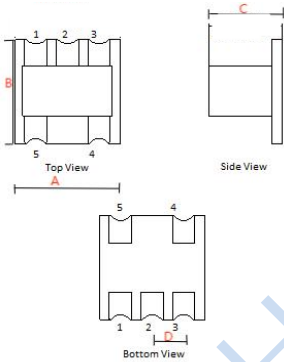
• APPLICATIONS

• Ideally suitable for CATV broadband applications.

• FEATURES

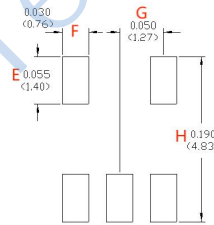
- Surface mount
- Impedance ratio: 1:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



A	B	C
4.27	4.27	2.53
D		
1.27		

Land Pattern



E	F	G
1.40	0.76	1.27
H		
4.83		

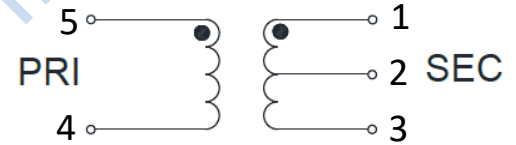
Unless otherwise stated dimensions are in mm

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)			75 / 37.5 / 37.5		Ohm
Insertion Loss (pin 5-1)	3-5MHz		1.00	2.60	dB
	5-200MHz		0.50	0.90	dB
Insertion Loss (pin 5-3)	3-10MHz		1.00	2.60	dB
	10-200MHz		0.40	0.75	dB
Amplitude Balance	3-200MHz		0.10	±0.3	dB
Phase Balance	3-200MHz		0.30	±3	Deg
Input Return Loss	3-5MHz	5	13		dB
	5-120MHz	19	27		dB
	120-200MHz	15	21		dB

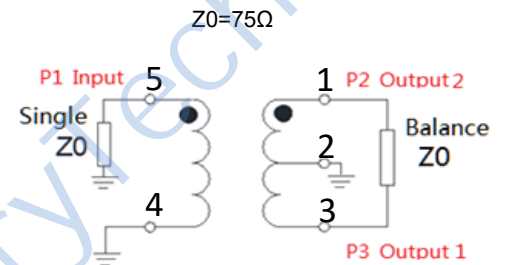
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

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

APPLICATION & TEST CIRCUIT



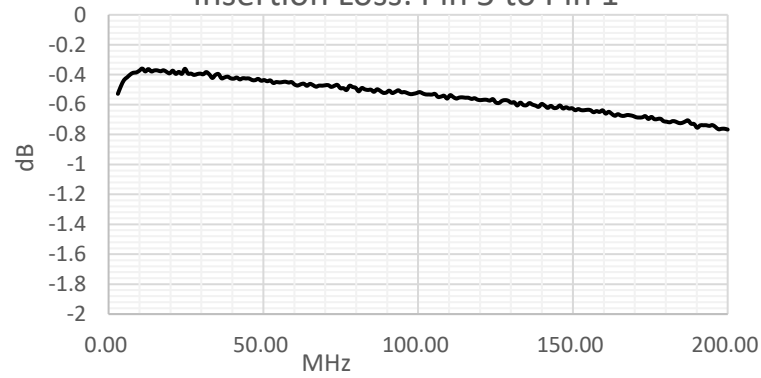
RF ports: P1/P2/P3

ABSOLUTE MAXIMUM RATINGS

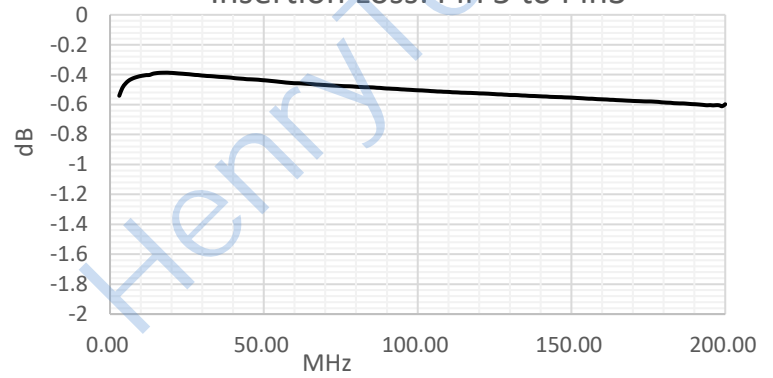
Parameter	Value
Input Power	250mW Max
DC Current	240mA Max
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-55 to 100°C

TEST CURVE

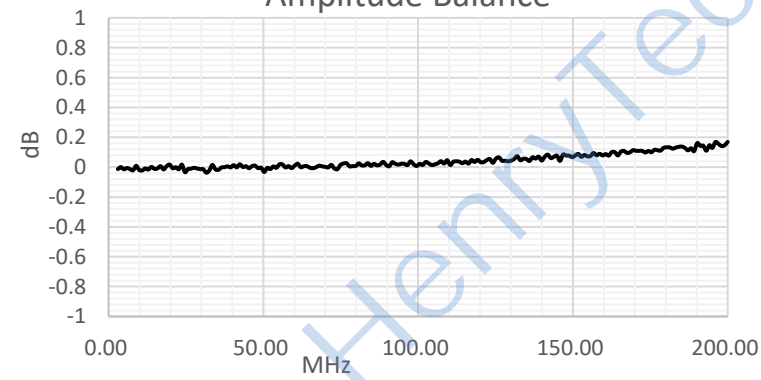
Insertion Loss: Pin 5 to Pin 1



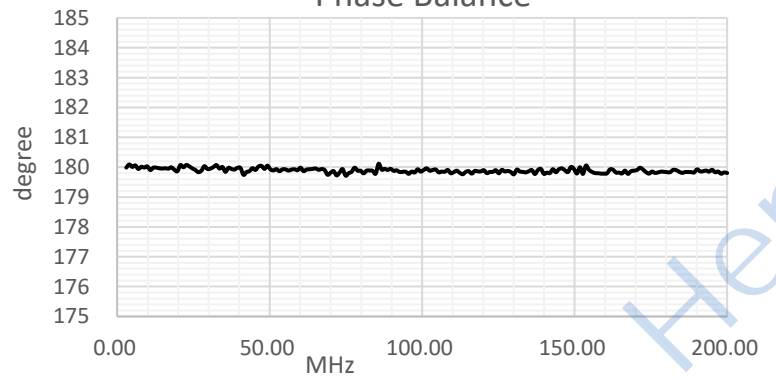
Insertion Loss: Pin 5 to Pin3



Amplitude Balance



Phase Balance



Input Return Loss: Pin 1

