

## H3-MABACT0059

4.5-3000MHz 75Ω 1:1 Balun

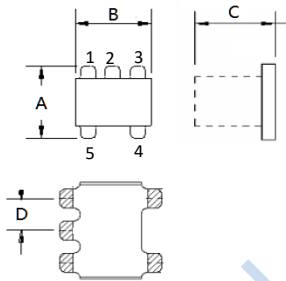
### • APPLICATIONS

• Ideally suited for CATV and Satellite STB/Subscriber applications.

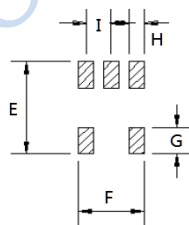
### • FEATURES

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

### DIMENSIONS



### Land Pattern



A	B	C
3.81	3.81	2.90 Max
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

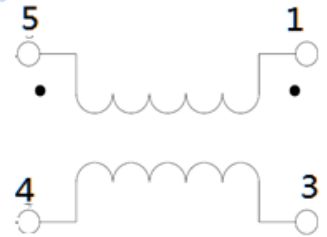
Unless otherwise stated dimensions are in mm

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)			75/37.5/37.5		Ohm
Insertion Loss 1 (Pin 4 to Pin 3)	4.5-1000MHz		0.6	1.0	dB
	1000-2000MHz		1.7	2.0	dB
	2000-2500MHz		2.1	5.0	dB
	2500-3000MHz		2.3	6.5	dB
Insertion Loss 2 (Pin 4 to Pin 1)	4.5-1000MHz		0.8	1.0	dB
	1000-2000MHz		1.2	2.0	dB
	2000-2500MHz		1.4	6.0	dB
	2500-3000MHz		2.1	8.4	dB
Input Return Loss (Pin 4)	4.5-1000MHz	15.0	16.0		dB
Amplitude Balance	4.5-20MHz		0.9	±1.2	dB
	20-1000MHz		0.5	±1.0	dB
Phase Balance (Nominal 180 °)	4.5-1000MHz		3	±20	°

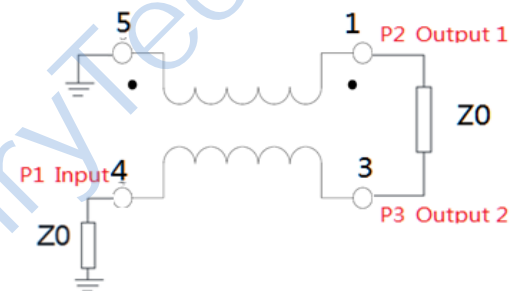
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

Pin No.	Function
1	Secondary Dot
2	Not Connected
3	Secondary
4	Primary
5	Primary Dot

### APPLICATION & TEST CIRCUIT

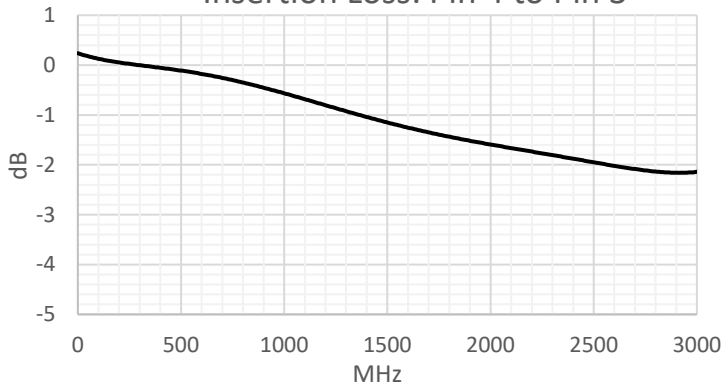


### ABSOLUTE MAXIMUM RATINGS

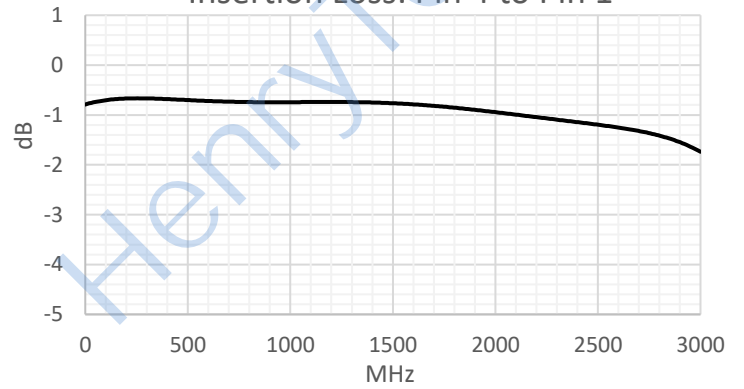
Parameter	Value
Input Power	250mW MAX
DC Current	30mA MAX
Operating Temperature Range	-40 to 85°C

## TEST CURVE

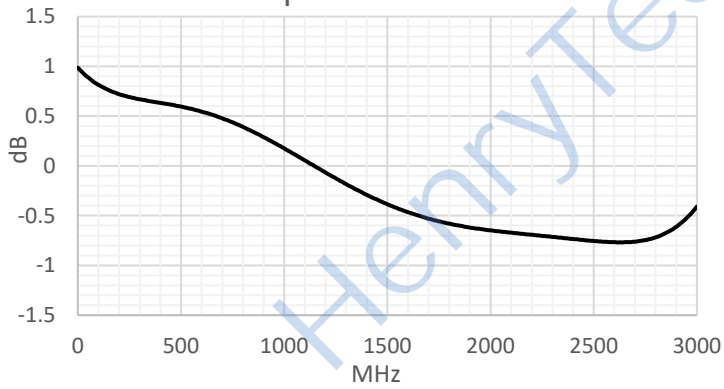
Insertion Loss: Pin 4 to Pin 3



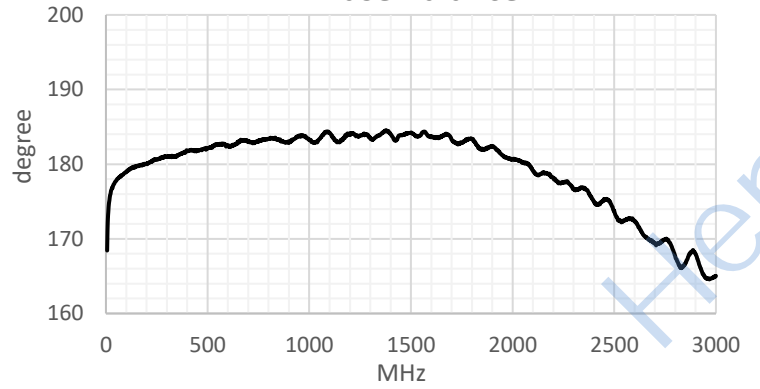
Insertion Loss: Pin 4 to Pin 1



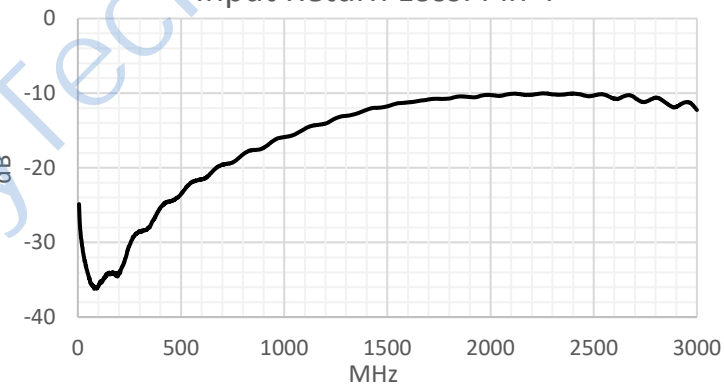
Amplitude Balance



Phase Balance



Input Return Loss: Pin 4



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