



H3-MABA-011061

5-300MHz 75Ω 4:1 Balun

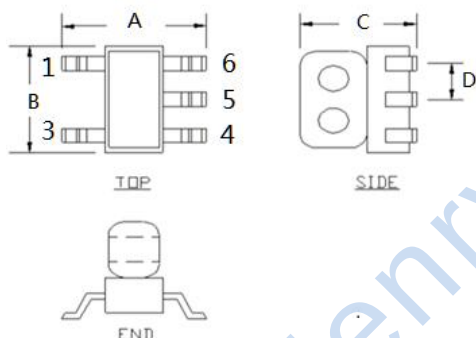
APPLICATIONS

- Ideally suitable for CATV broadband applications.

FEATURES

- Surface mount
- Impedance ratio: 4:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel
- 260° reflow compatible

DIMENSIONS



Land Pattern



A	B	C
4.26	3.80	3.54
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

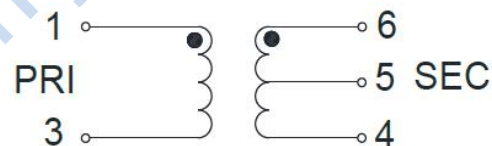
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25℃:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z ₀			75		Ohm
Insertion Loss	5-50MHz		0.5	0.9	dB
	50-150MHz		1.1	2.2	dB
	150-300MHz		2.8	4.9	dB
Input Return Loss(Pin 1)	5-50MHz	14.0	21.0		dB
	50-150MHz	7.0	12.0		dB
	150-300MHz	3.0	7.0		dB
Amplitude Balance	5-50MHz		0.10	0.5	dB
	50-150MHz		0.20	0.8	dB
	150-300MHz		0.50	1.6	dB
Phase Balance(ref value 180°)	5-50MHz		0.8	3.0	Deg
	50-150MHz		2.4	7.0	Deg
	150-300MHz		3.5	10.0	Deg

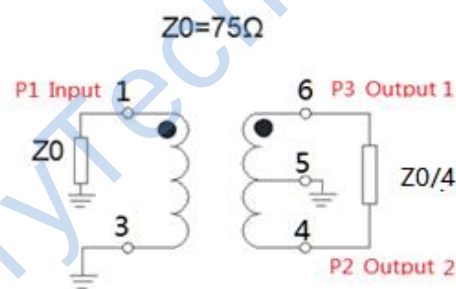
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Primary Dot (input)
3	Primary (ground)
4	Secondary (Output2)
5	Center Tap (Ground)
6	Secondary Dot (Output1)

APPLICATION & TEST CIRCUIT



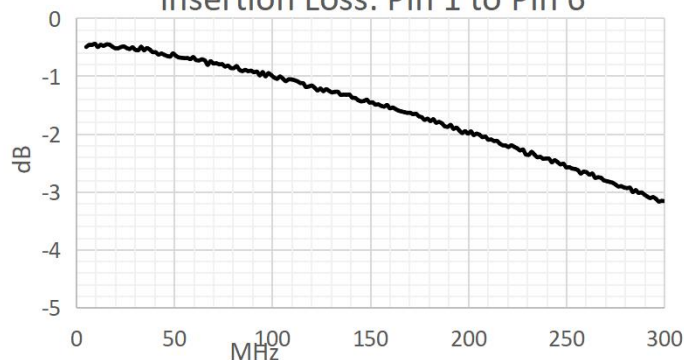
ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	2000mW Max
DC Current	1500mA Max
Operating Temperature Range	-40 to 125℃

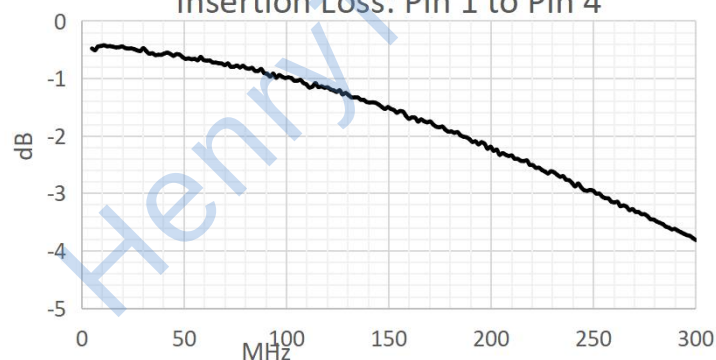


TEST CURVE

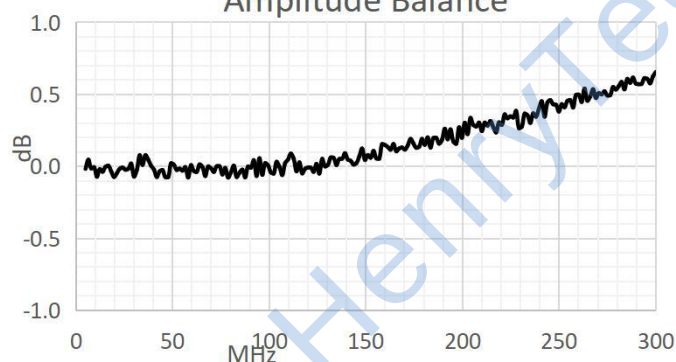
Insertion Loss: Pin 1 to Pin 6



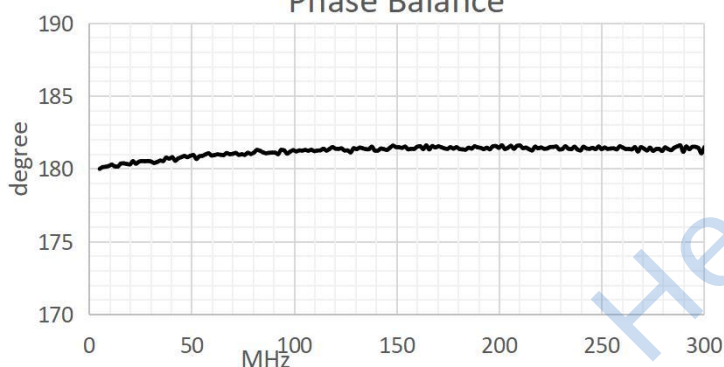
Insertion Loss: Pin 1 to Pin 4



Amplitude Balance



Phase Balance



Input Return Loss: Pin 1

