

H3-MABA-011026

5-200MHz 75Ω 1:1 Balun

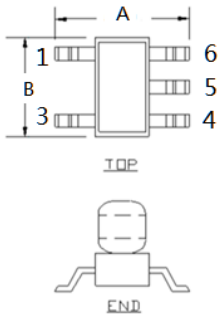
APPLICATIONS

• Ideally suitable for CATV broadband applications.

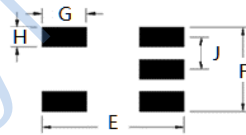
FEATURES

- Surface mount
- Impedance ratio: 1:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel
- ideally suited for DOCSIS 3.0

DIMENSIONS



Land Pattern



A	B	C
5.30	4.21	3.53
D		
1.50		

E	F	G
6.13	3.91	1.92
H	J	
0.91	1.50	

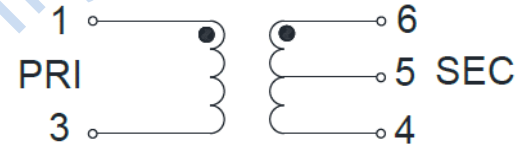
Unless otherwise stated dimensions are in mm

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	5-60MHz		0.4	0.6	dB
	60-150MHz		0.5	0.7	dB
	150-200MHz		0.7	1.5	dB
Input Return Loss (Pin 1)	5-60MHz	20.0	28.0		dB
	60-200MHz	12.0	19.0		dB
Amplitude Balance	5-60MHz		0.02	0.1	dB
	60-200MHz		0.25	0.5	dB
Phase Balance (ref value 180° Deg)	5-60MHz		0.1	1.0	Deg
	60-200MHz		0.5	3.0	Deg

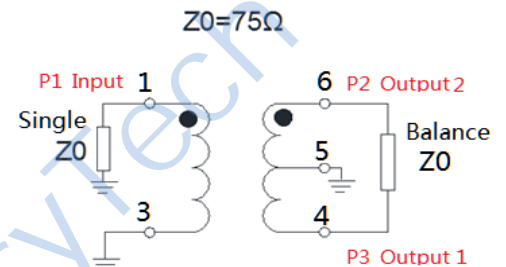
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

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

APPLICATION & TEST CIRCUIT



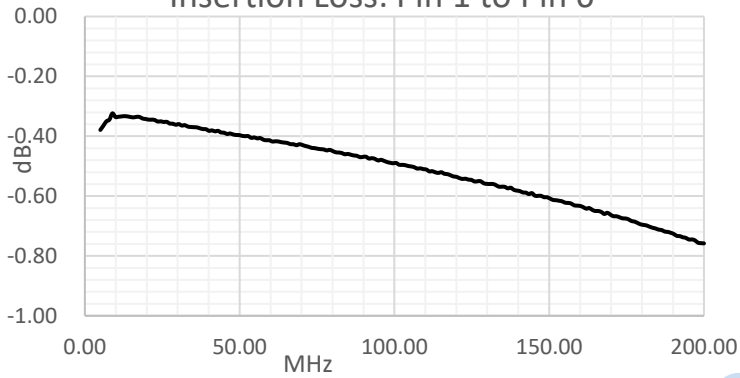
RF ports: P1/P2/P3

ABSOLUTE MAXIMUM RATINGS

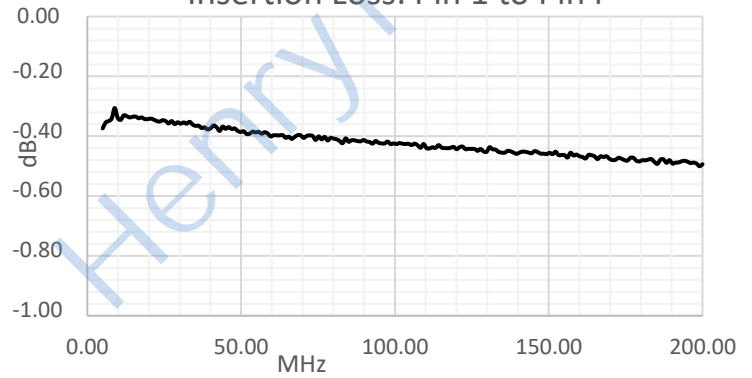
Parameter	Value
Input RF Power(+28dBm)	631mW Max
DC Current(tested at 5V)	600mA Max
Operating Temperature Range	-40 to 105°C

TEST CURVE

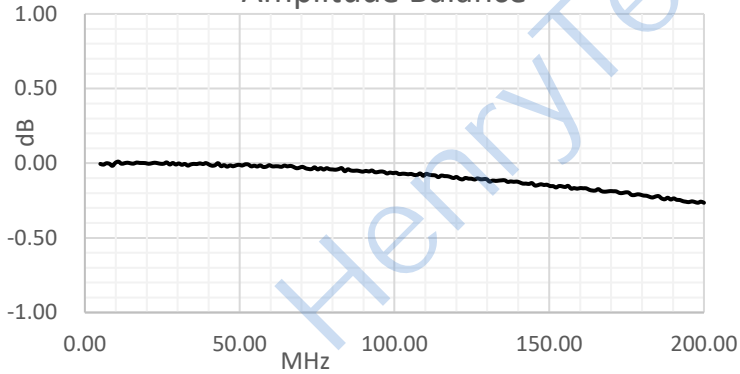
Insertion Loss: Pin 1 to Pin 6



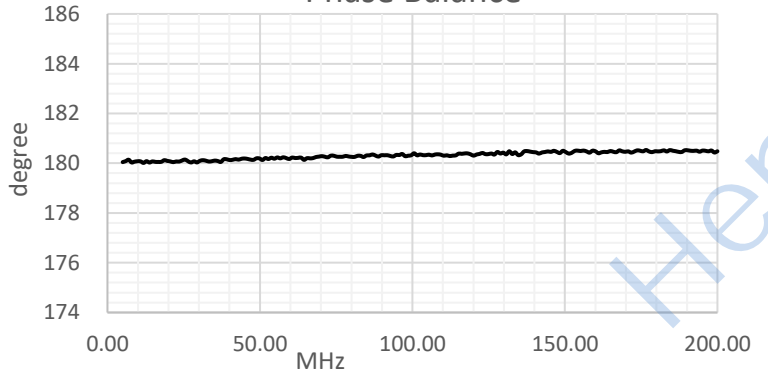
Insertion Loss: Pin 1 to Pin4



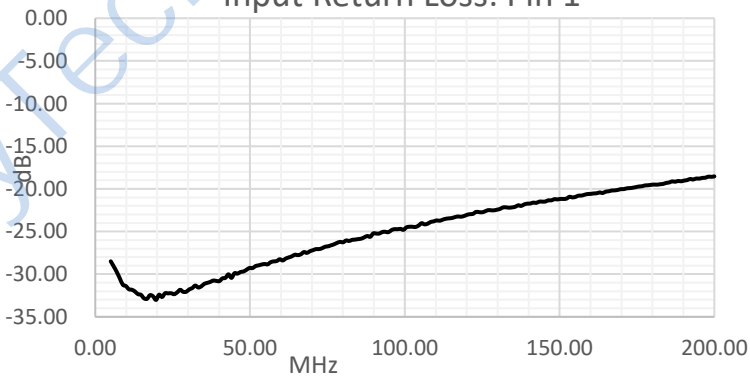
Amplitude Balance



Phase Balance



Input Return Loss: Pin 1



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