

H3-MABA-011073

1-100MHz 75Ω 1:1 Balun

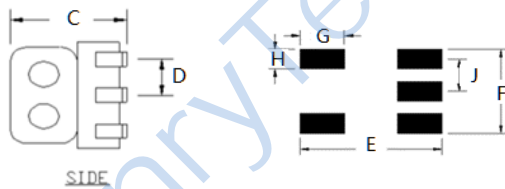
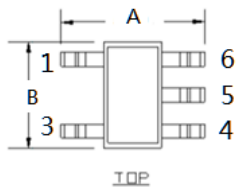
• APPLICATIONS

• Ideally suited for all CATV Broadband and FTTH applications.

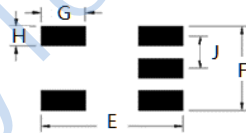
• FEATURES

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

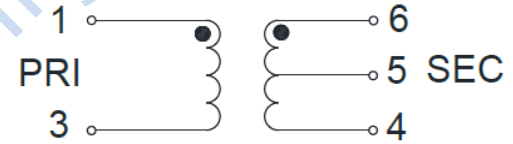
DIMENSIONS



Land Pattern



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)

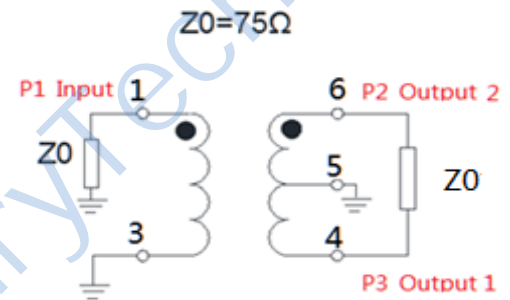
A	B	C
4.23	3.78	3.61
D		
1.27		

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

APPLICATION & TEST CIRCUIT



ELECTRICAL SPECIFICATIONS@25°C:

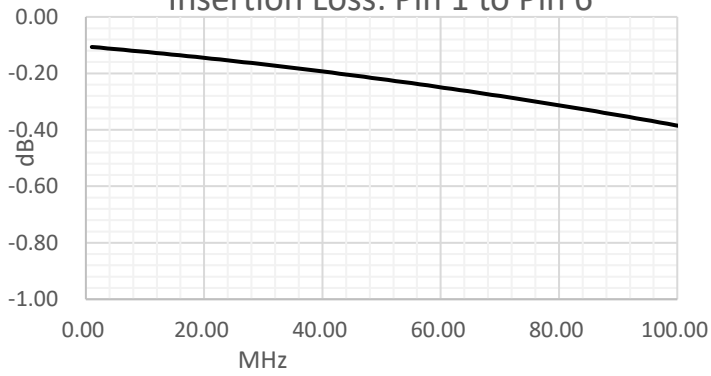
Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 /37.5/37.5		Ohm
Insertion Loss	1-100MHz		0.3	0.6	dB
Input Return Loss(Pin 1)	1-50MHz	20	28.0		
	50-100MHz	15.0	21.0		dB
Amplitude Balance	1-100MHz		0.02	0.2	dB
Phase Balance(ref value 180°)	1-100MHz		1.0	3.0	Deg

ABSOLUTE MAXIMUM RATINGS

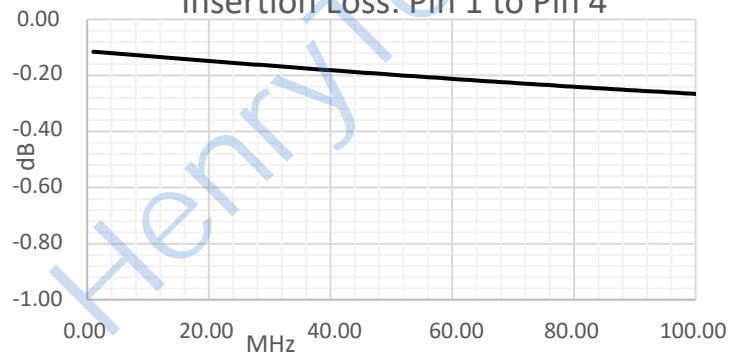
Parameter	Value
Input RF Power	2000mW Max
DC Current	1500mA Max
Operating Temperature Range	-40 to 125°C

TEST CURVE

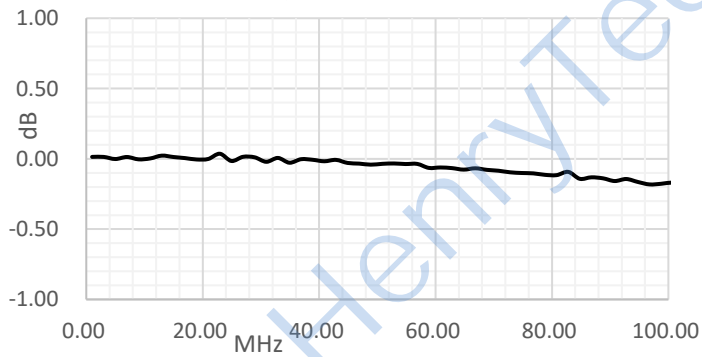
Insertion Loss: Pin 1 to Pin 6



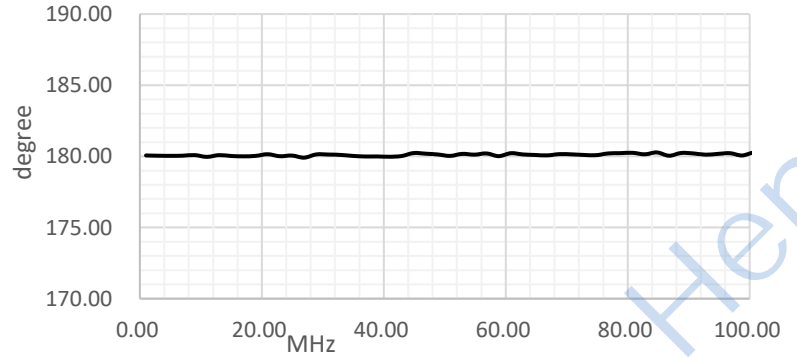
Insertion Loss: Pin 1 to Pin 4



Amplitude Balance



Phase Balance



Input Return Loss: Pin 1

