

H3-MABA-009092-CT1A40

5-1000MHz 75Ω 3:4 Ratio Balun

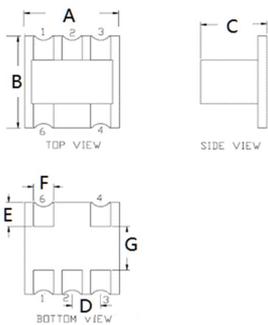
• APPLICATIONS

• Ideally suited for high volume CATV/Broadband applications.

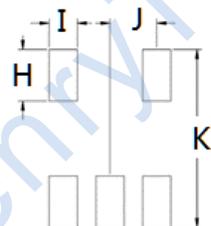
• FEATURES

- Surface mount
- Impedance ratio: 3:4
- Available on tape and reel
- RoHS compliant and Pb free
- 260°C reflow compatible

DIMENSIONS



Land Pattern



A	B	C	D	H	I	J
4.21	4.21	2.79	1.27	1.40	0.76	1.27
E	F	G		K		
1.11	0.90	2.00		4.83		

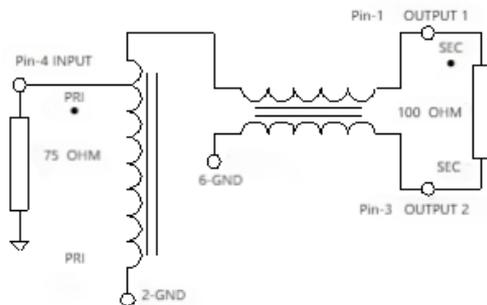
Unless otherwise stated dimensions are in mm

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)			75/50/50		Ohm
Insertion Loss 1 (Pin 4 to Pin 1)	5-50MHz		0.3	0.4	dB
	50-870MHz		1.3	1.8	dB
	870-1000MHz		1.6	2.4	dB
Insertion Loss 2 (Pin 4 to Pin 3)	5-50MHz		1.1	1.4	dB
	50-870MHz		1.1	1.2	dB
	870-1000MHz		1.1	1.5	dB
Amplitude Balance	5-50MHz		0.7	1.3	dB
	50-870MHz		0.7	1.0	dB
	870-1000MHz		0.5	1.4	dB
Phase Balance (Nominal 180°)	5-50MHz		4	16	°
	50-1000MHz		7	9	°
Input Return Loss	5-50MHz	13	23		dB
	50-400MHz	20	24		dB
	400-870MHz	9	16		dB
	870-1000MHz	8	15		dB

FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

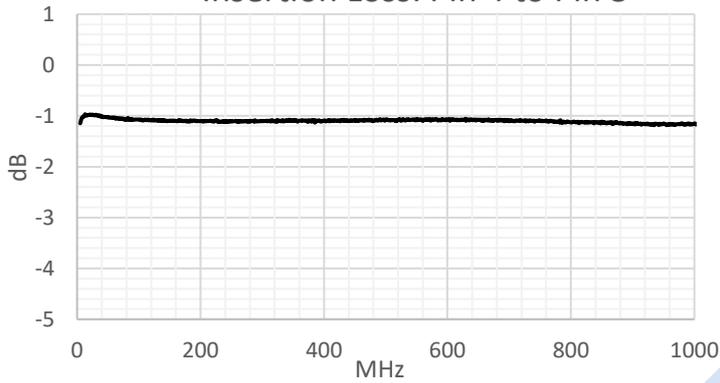
Pin No.	Function
1	Secondary Dot (output 1)
2	Primary (ground)
3	Secondary (output 2)
4	Primary Dot (input)
6	Ground

ABSOLUTE MAXIMUM RATINGS

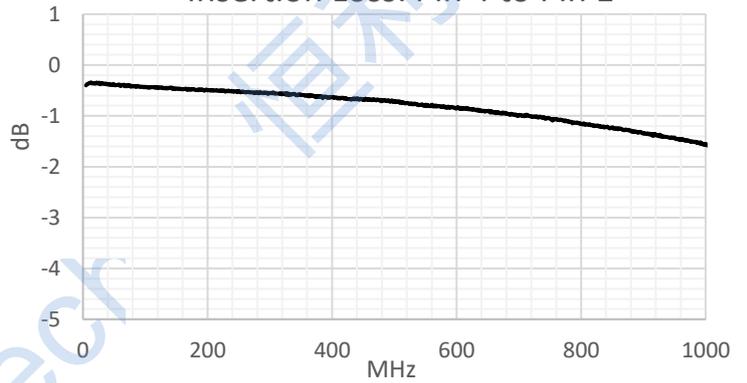
Parameter	Value
Input Power	250mW MAX
DC Current	30mA MAX
Operating Temperature Range	-40 to 85°C

TEST CURVE

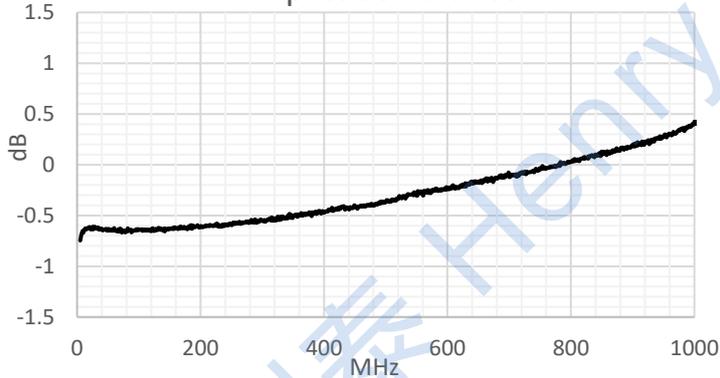
Insertion Loss: Pin 4 to Pin 3



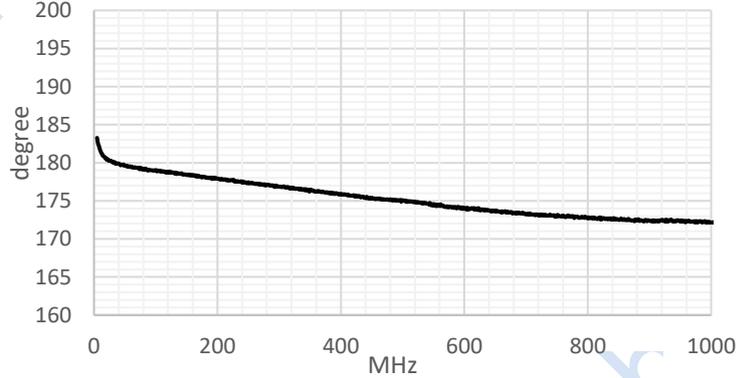
Insertion Loss: Pin 4 to Pin 1



Amplitude Balance



Phase Balance



Input Return Loss: Pin 4

