

## H3-MABA-010554-CF0FA0

5-100MHz 75Ω 3:2 Balun

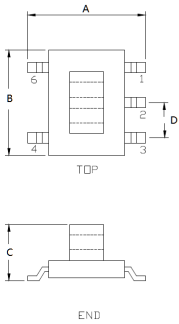
### APPLICATIONS

Suitable for all CATV, Broadband and FTTx applications.

### FEATURES

- Surface mount
- Impedance ratio: 3:2
- Excellent temperature stability
- RoHS compliant and Pb free
- Available on tape and reel
- Can be used on 50Ω and 75Ω systems

### DIMENSIONS

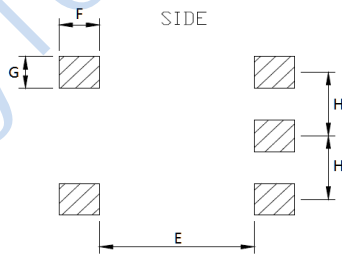


A	B	C
6.26	6.00	3.25
D		
2.00		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

### Land Pattern



E	F	G
4.60	1.20	1.00
2.00		
0.91		

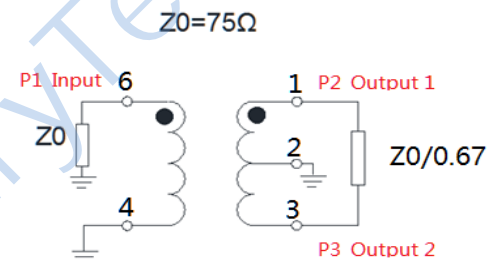
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

Pin No.	Function
1	Secondary Dot (output1)
2	Center tap (ground)
3	Secondary (output2)
4	Primary (ground)
5	Not used(ground)
6	Primary Dot (input)

### APPLICATION & TEST CIRCUIT



### ELECTRICAL SPECIFICATIONS@25°C:

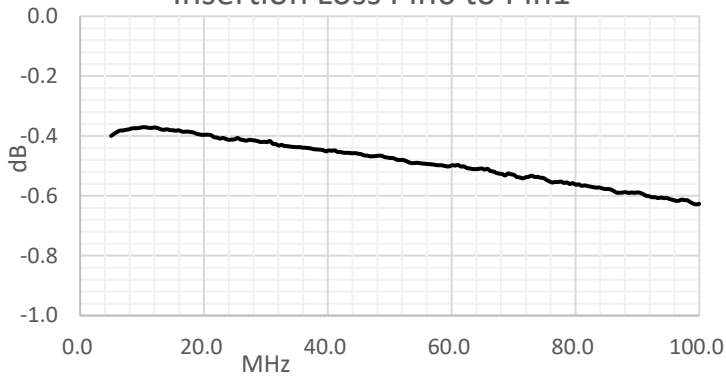
Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 / 25 / 25		Ohm
Insertion Loss (pin6-pin3)	5-25MHz		0.5	0.7	dB
	25-100MHz		0.6	0.8	dB
Insertion Loss (pin6-pin1)	5-25MHz		0.6	0.8	dB
	25-100MHz		0.7	0.9	dB
Phase Balance	5-100MHz		0.2	2.0	Deg
Amplitude Balance	5-100MHz		0.1	0.3	dB
Input Return Loss (pin6)	5-50MHz	20.0	27.0		dB
	50-100MHz	13.0	19.0		dB

### ABSOLUTE MAXIMUM RATINGS

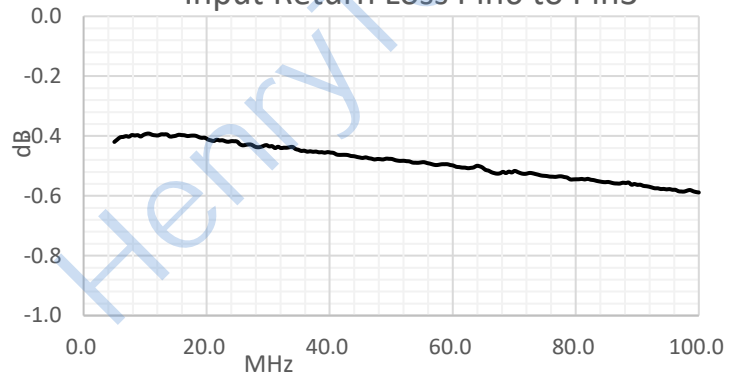
Parameter	Value
Input RF Power	250mW Max
DC Current	200mA Max
Storage Temperature Range	-55 to 125°C
Operating Temperature Range	-40 to 85°C

## TEST CURVE

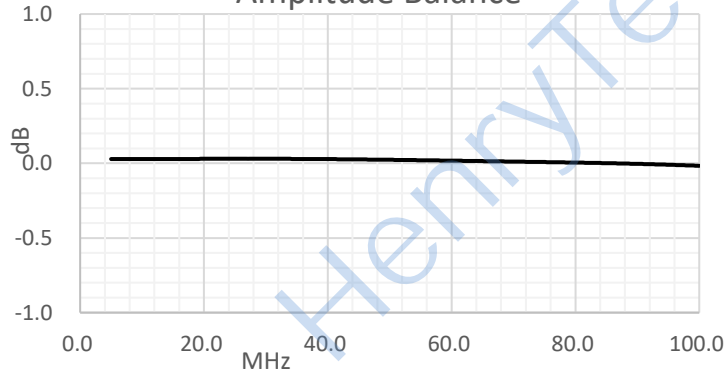
Insertion Loss Pin6 to Pin1



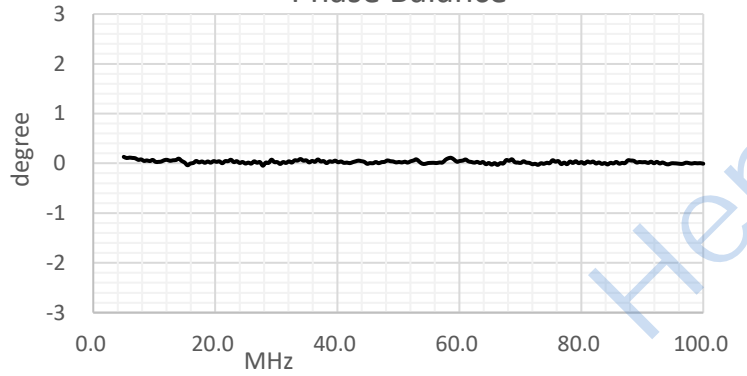
Input Return Loss Pin6 to Pin3



Amplitude Balance



Phase Balance



Input Return Loss

