

## H3-MABA-009594-CF18A0

5-200MHz 75Ω 1:1 Balun

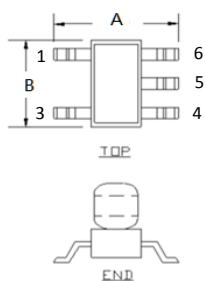
### APPLICATIONS

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
- Suitable for DOCSIS 3.0

### DIMENSIONS

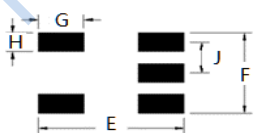


A	B	C
5.39	4.22	3.70
D		
1.50		

Unless otherwise stated dimensions are in mm

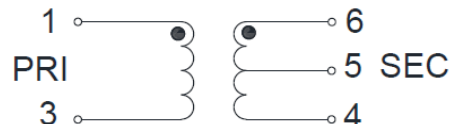
Tolerance: .xx ± 0.25, .xxx ± 0.05

### Land Pattern



E	F	G
6.13	3.91	1.92
H	J	
0.91	1.50	

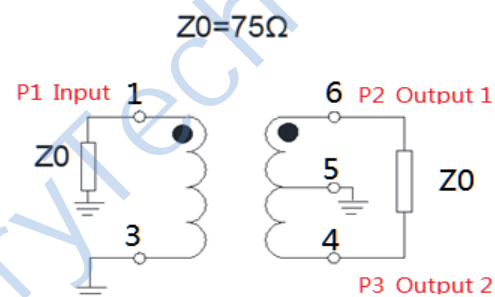
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

Pin No.	Function
1	Primary Dot
3	Primary
4	Secondary
5	Secondary Centre Tap
6	Secondary Dot

### APPLICATION & TEST CIRCUIT



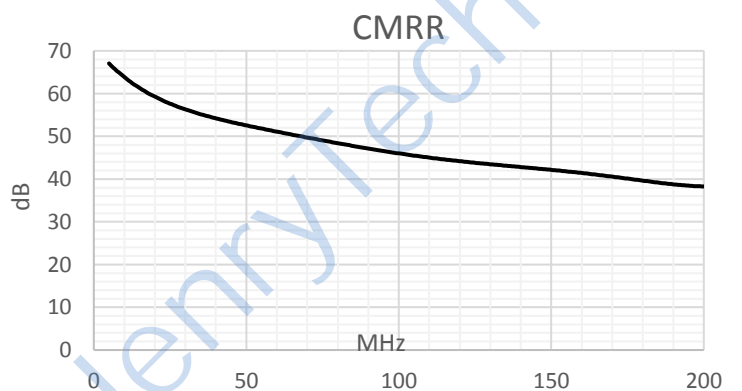
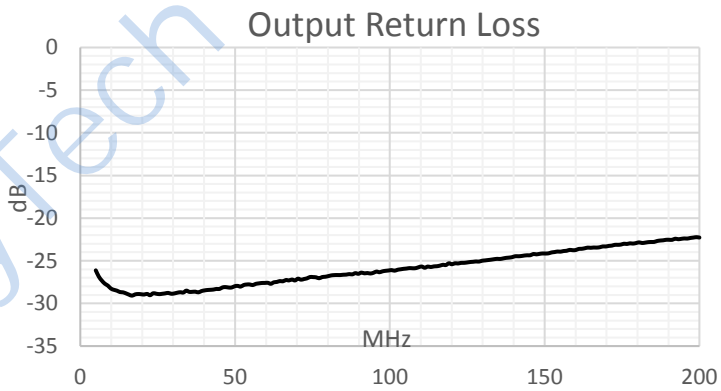
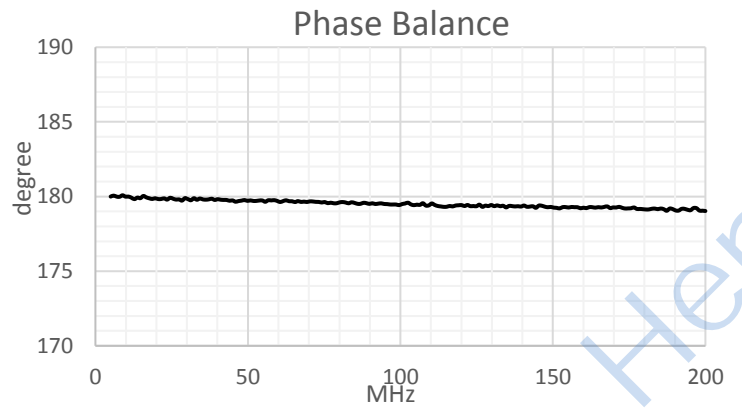
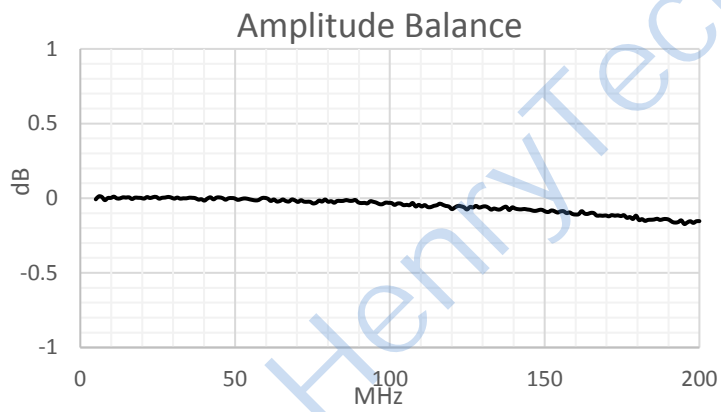
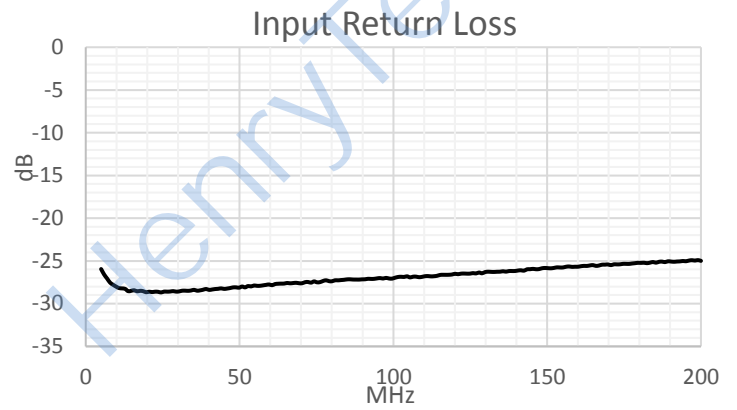
### ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 / 37.5 / 37.5		Ohm
Insertion Loss	5-60MHz		0.4	0.6	dB
	60-150MHz		0.5	0.8	dB
	150-200MHz		0.7	1.0	dB
Return Loss	5-60MHz	22.0	28.0		dB
	60-200MHz	14.0	21.0		dB
Amplitude Balance	5-60MHz		0.0	±0.1	dB
	60-200MHz		0.2	±0.4	dB
Phase Balance (ref value 180°)	5-60MHz		0.1	±2.0	°
	60-200MHz		0.3	±4.0	°
CMRR	5-60MHz	40.0	50.0		dB
	60-200MHz	30.0	38.0		dB

### ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input Power	+28dBm (631mW)
DC Current	600mA Max
Operating Temperature Range	-40 to 100°C

## TEST CURVE



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