

## H3-MABA-011002

5-200MHz 75Ω 4:1 Balun

### APPLICATIONS

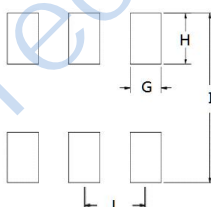
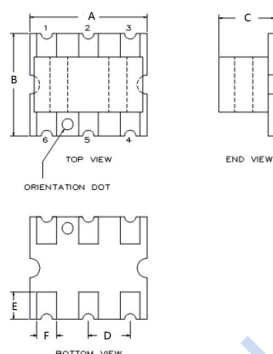
• Ideally suitable for CATV broadband applications.

### FEATURES

- Surface mount
- Impedance ratio: 4:1
- Excellent performance under DC bias current, also when current flows is imbalanced through outputs
- RoHS compliant and Pb free
- Available on tape and reel

### DIMENSIONS

### Land Pattern



A	B	C
7.11	6.35	4.35Max
D	E	F
2.54	1.70	1.20

G	H	I
1.30	2.15	6.71
J		
2.54		

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 / 9.375/ 9.375		Ohm
Insertion Loss 1 (pin6-pin1)	5-50MHz		0.5	0.8	dB
	50-150MHz		1.6	2.2	dB
	150-200MHz		2.0	3.1	dB
Insertion Loss 2 (pin6-pin3)	5-50MHz		0.7	0.8	dB
	50-150MHz		2.1	2.5	dB
	150-200MHz		3.1	3.6	dB
Phase Balance (ref value 180°)	5-50MHz		2.0	4.0	Deg
	50-200MHz		4.0	9.0	Deg
Amplitude Balance	5-50MHz		0.2	0.4	dB
	50-150MHz		0.3	1.0	dB
	150-200MHz		0.4	1.4	dB
Input Return Loss (pin6)	5-25MHz	17.0	20.0		dB
	25-50MHz	12.0	15.0		dB
	50-150MHz	5.0	9.0		dB
	150-200MHz	3.0	6.0		dB

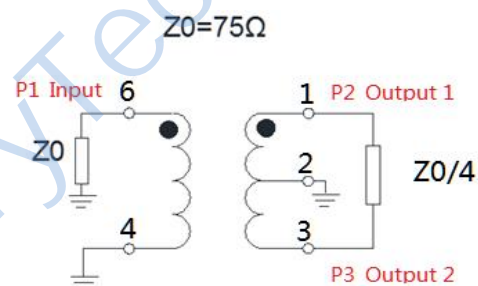
### FUNCTIONAL SCHEMATIC



### 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



### ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	1W Max
Internal Load Dissipation	0.125W Max
Tested up to DC bias current, will perform above this level	900mA Max
Operating Temperature Range	-40 to 85°C

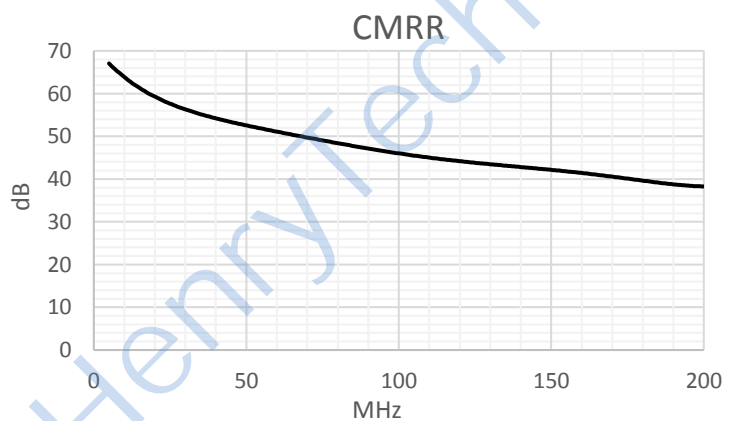
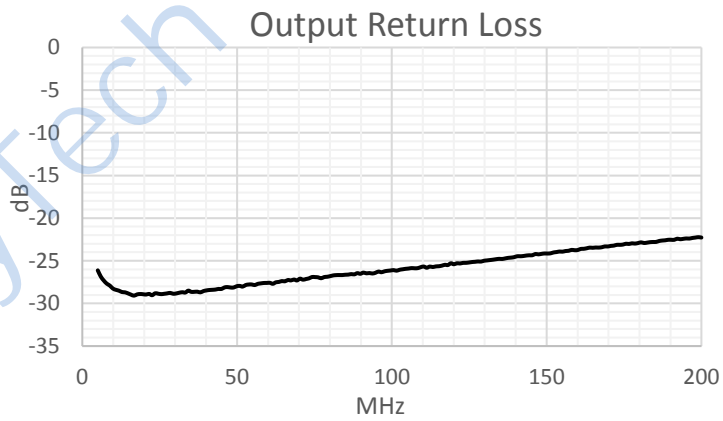
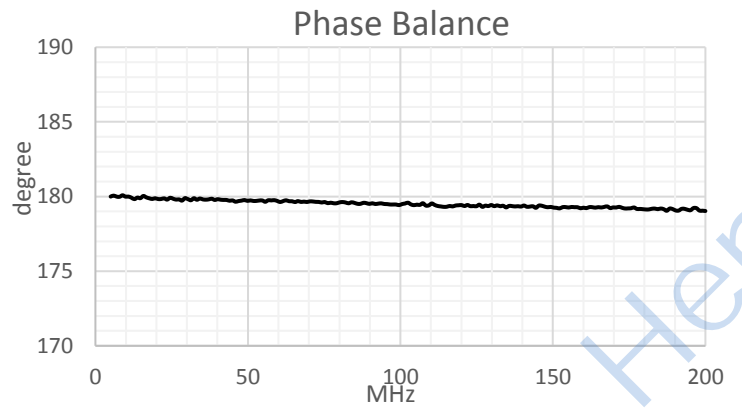
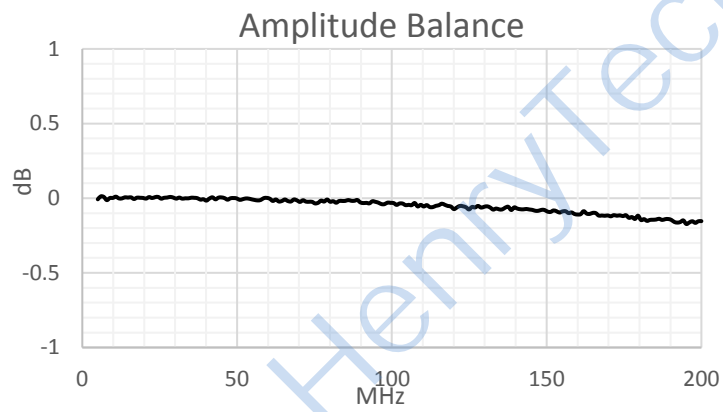
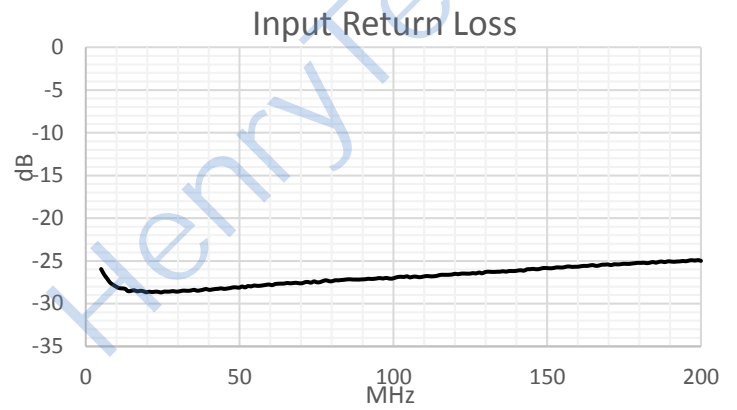
Tel: +86-28-85589664

E-mail: mr\_li@henglitaitech.com

Web: www.hltchips.com

Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

## TEST CURVE



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