

## H3-MABA-011056

5-300MHz 75Ω 2:1 Balun

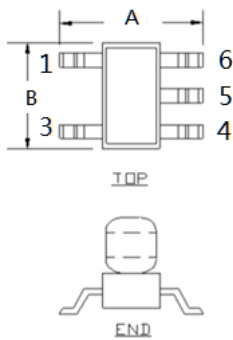
### APPLICATIONS

• Ideally suitable for CATV broadband applications.

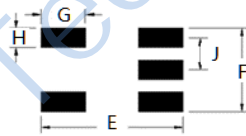
### FEATURES

- Surface mount
- Impedance ratio: 2:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel
- ideally suited for DOCSIS 3.1

### DIMENSIONS



### Land Pattern



A	B	C
5.39	4.22	3.63
D		
1.50		

E	F	G
6.13	3.91	1.92
H	J	
0.91	1.50	

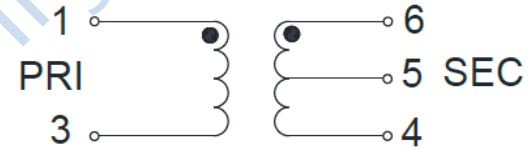
Unless otherwise stated dimensions are in mm

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 / 18.75/ 18.75		Ohm
Insertion Loss	5-50MHz		0.4	0.6	dB
	50-85MHz		0.5	0.7	dB
	85-205MHz		0.8	1.5	dB
	205-300MHz		1.3	2.2	dB
Input Return Loss (Pin 1)	5-50MHz	20.0	25.0		dB
	50-85MHz	15.0	19.0		dB
	85-205MHz	8.0	13.0		dB
	205-300MHz	6.0	9.0		dB
Amplitude Balance	5-50MHz		0.02	0.2	dB
	50-85MHz		0.10	0.3	dB
	85-205MHz		0.20	0.5	dB
	205-300MHz		0.5	0.7	dB
Phase Balance (ref value 180 °)	5-50MHz		1.0	2.0	Deg
	50-85MHz		1.5	3.0	Deg
	85-205MHz		3.0	6.0	Deg
	205-300MHz		4.0	7.0	Deg

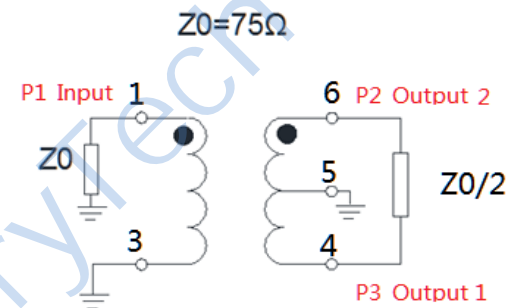
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

Pin No.	Function
1	Primary Dot (input)
3	Primary (ground)
4	Secondary (Output1)
5	Center Tap (Ground)
6	Secondary Dot (Output2)

### APPLICATION & TEST CIRCUIT



### ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	500mW Max
DC Current	500mA Max
Operating Temperature Range	-40 to 85°C

Tel: +86-28-85589664

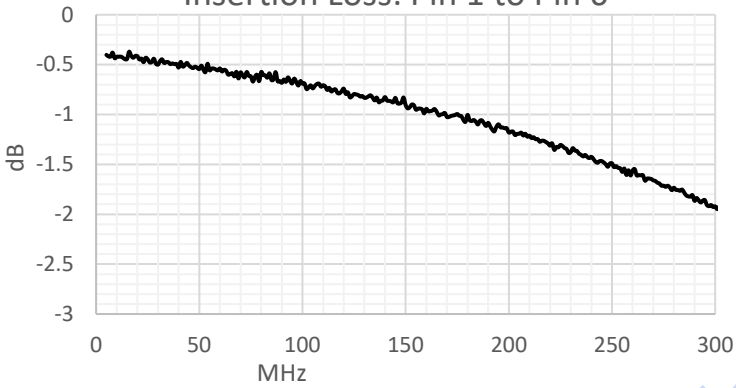
E-mail: mr\_li@henglitaitech.com

Web: www.hltchips.com

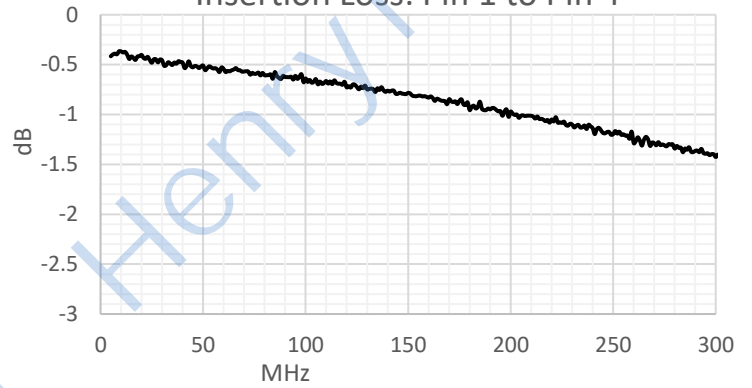
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

## TEST CURVE

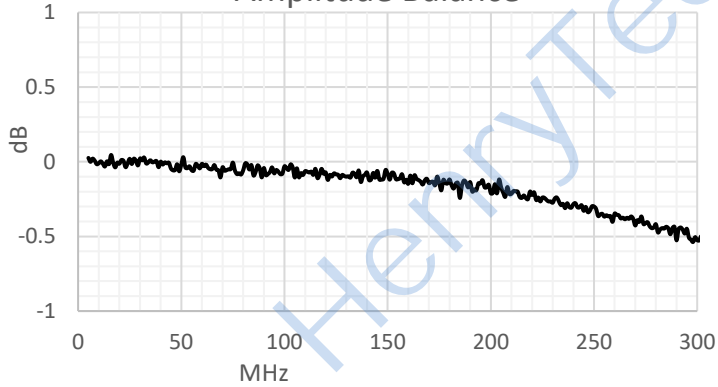
Insertion Loss: Pin 1 to Pin 6



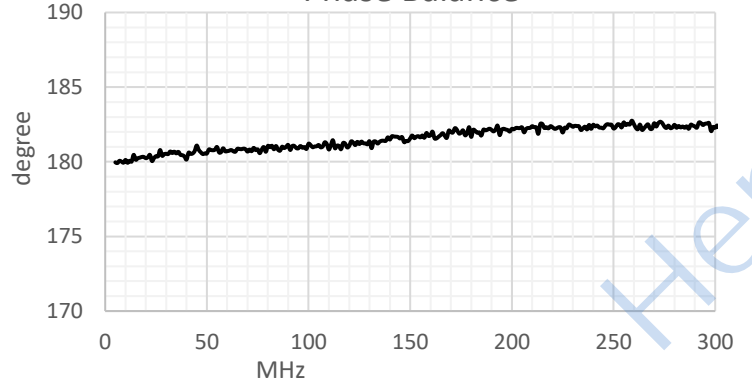
Insertion Loss: Pin 1 to Pin 4



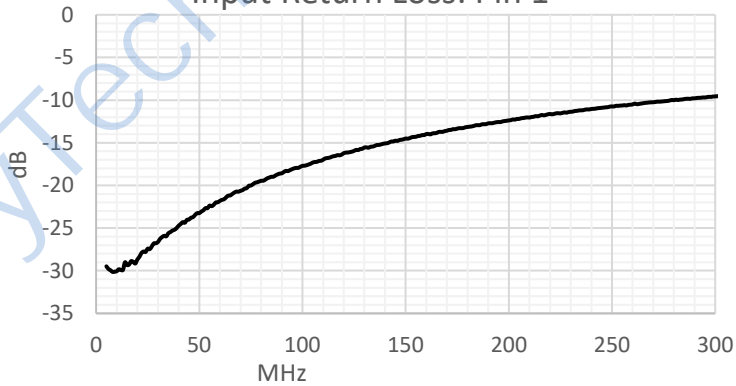
Amplitude Balance



Phase Balance



Input Return Loss: Pin 1



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