

# H3-MABA-011064

5-300MHz 75Ω 4:1 Balun

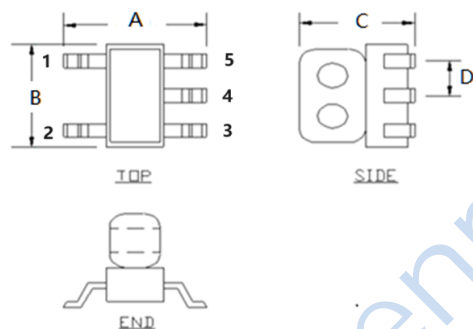
## • APPLICATIONS

• Ideally suitable for CATV broadband applications.

## • FEATURES

- Surface mount
- Impedance ratio: 4:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel
- 260° reflow compatible

## DIMENSIONS

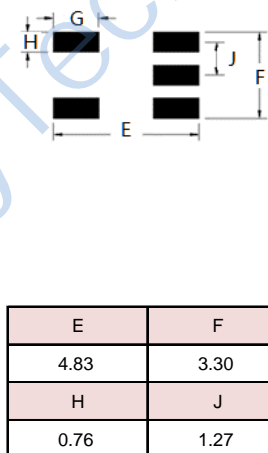


A	B	C
4.23	3.74	3.55
D		
1.27		

Unless otherwise stated dimensions are in mm

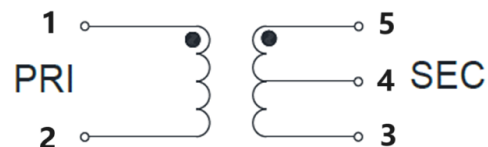
Tolerance: .xx ± 0.25, .xxx ± 0.05

## Land Pattern



E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

## FUNCTIONAL SCHEMATIC



## PIN CONFIGURATION

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

## ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			75		Ohm
Impedance Ratio			1:2		
Insertion Loss 1 (Pin1 - Pin5)	5 - 50 MHz		0.4	0.7	dB
	50 - 150 MHz		0.9	2	dB
	150 - 300 MHz		2.2	4.5	dB
Insertion Loss 2 (Pin1 - Pin3)	5 - 50 MHz		0.5	0.9	dB
	50 - 150 MHz		1.1	2.2	dB
	150 - 300 MHz		2.8	4.9	dB
Input Return Loss(Pin 1)	5 - 50 MHz	14	21.0		dB
	50 - 150 MHz	7	12.0		dB
	150 - 300 MHz	3.0	7.0		dB
Amplitude Balance	5 - 50 MHz		0.10	0.5	dB
	50 - 150 MHz		0.20	0.8	dB
	150 - 300 MHz		0.50	1.6	dB
Phase Balance(ref value 180°)	5 - 50 MHz		0.8	2.0	Deg
	50 - 150 MHz		2.4	7.0	Deg
	150 - 300 MHz		3.5	10.0	Deg

## ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	2000mW Max
DC Current	1500mA Max
Operating Temperature Range	-40 to 125°C

Tel: +86-28-85589664

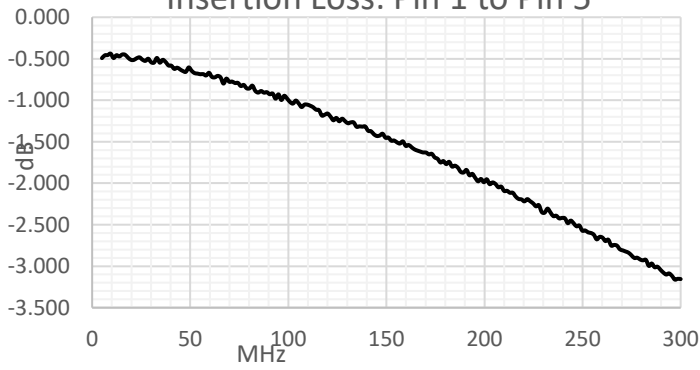
E-mail: mr\_li@henglitaitech.com

Web: www.hltchips.com

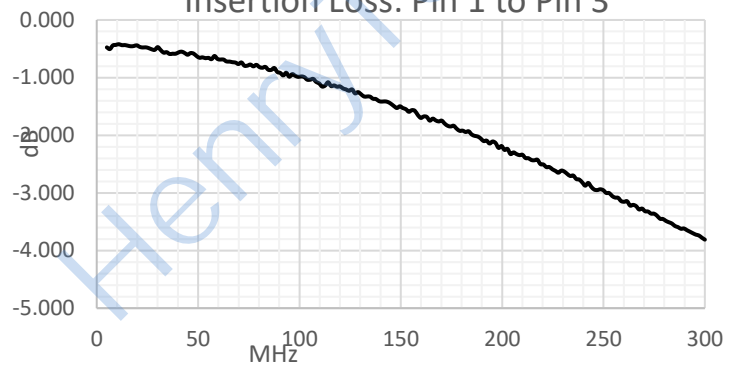
Adress:No.198 Tianqin East Street, Gaoxin West District, Chengdu City

## TEST CURVE

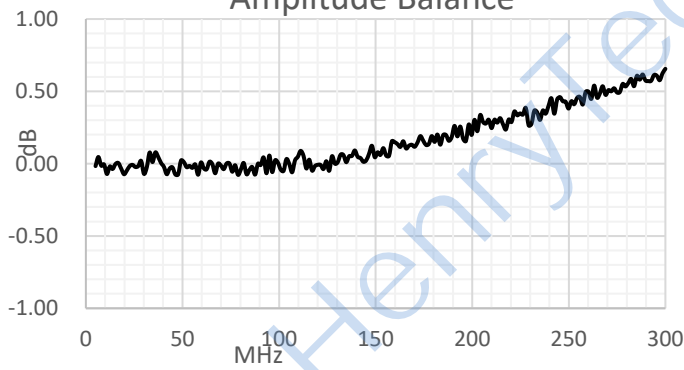
Insertion Loss: Pin 1 to Pin 5



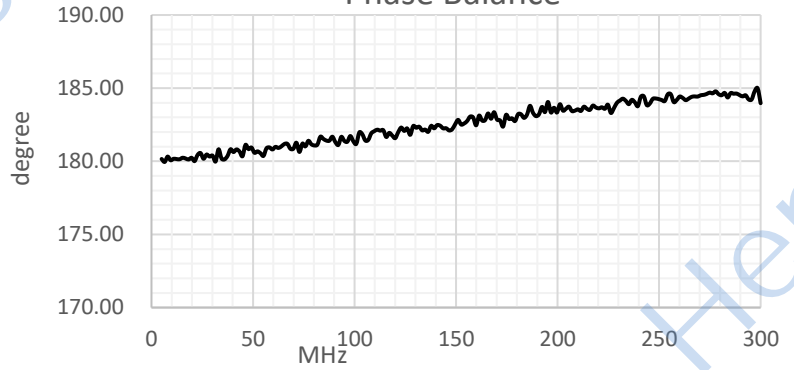
Insertion Loss: Pin 1 to Pin 3



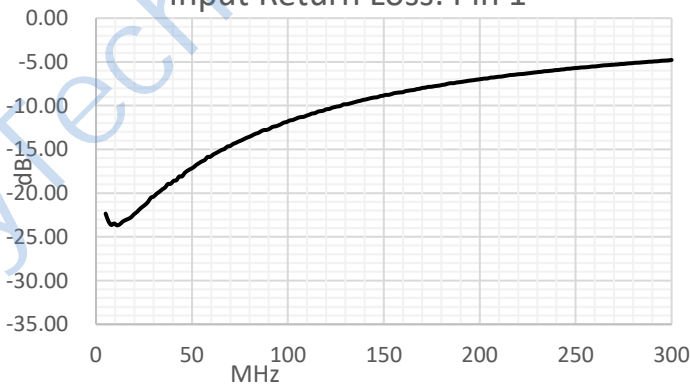
Amplitude Balance



Phase Balance



Input Return Loss: Pin 1



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