



H3-MABA-011047

3-3000MHz 50Ω 1:1 Balun

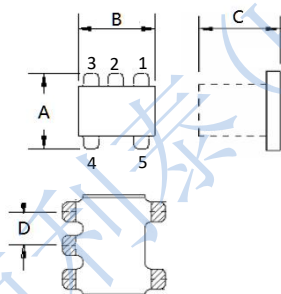
APPLICATIONS

- Ideally suited for high volume cellular and wireless applications.

FEATURES

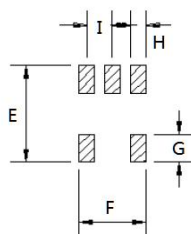
- Surface mount
- Impedance ratio: 1:1
- Available on tape and reel
- RoHS compliant and Pb free
- 260°C reflow compatible

DIMENSIONS



A	B	C
3.81	3.81	2.70
D		
1.27		

Land Pattern



E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

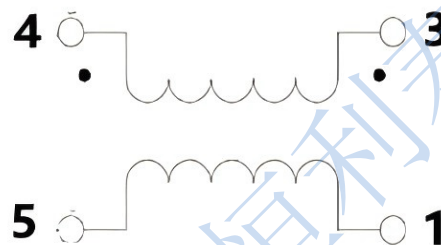
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C: y

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			50/ 25/ 25		Ohm
Insertion Loss Pin 4 to Pin3	3-1800MHz		1.0	1.5	dB
	1800-2400MHz		1.1	2.0	dB
	2400-2700MHz		1.6	2.5	dB
	2700-3000MHz		1.8	3.0	dB
Insertion Loss Pin 4 to Pin1	3-1800MHz		1.0	1.5	dB
	1800-2400MHz		0.5	2.0	dB
	2400-2700MHz		1.0	2.5	dB
	2700-3000MHz		1.3	3.0	dB
Amplitude UnBalance	3-20MHz		1.0	1.6	dB
	20-3000MHz		0.6	1.0	dB
Phase UnBalance	3-3000MHz		6	±20	°
Input Return Loss	3-3000MHz	10.0	16		dB

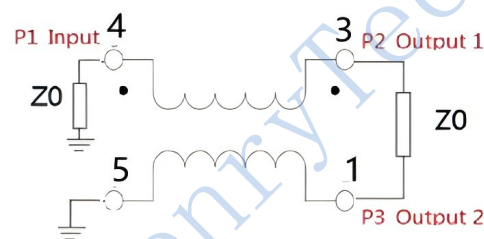
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Secondary
2	Not Connected
3	Secondary Dot
4	Primary Dot
5	Primary

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input Power	2W MAX
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-55 to 100°C

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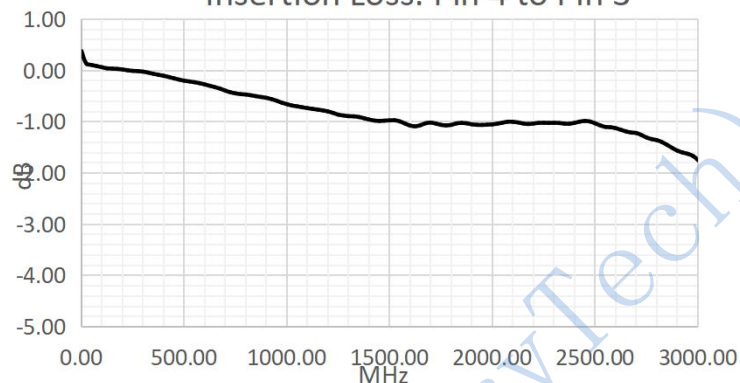
Web: www.hltchips.com

Adress:Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuxi Road, Jinniu District, Chengdu City

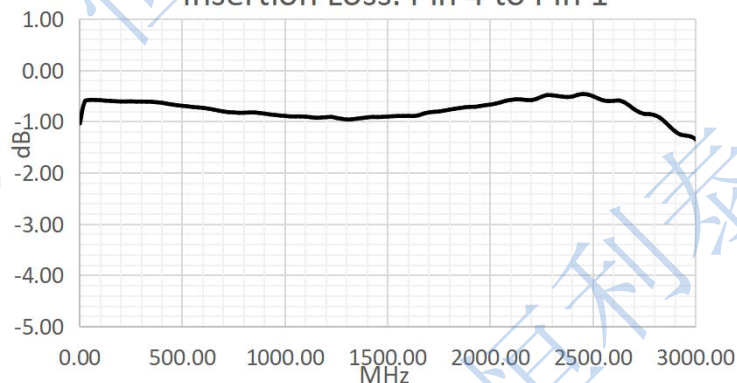


TEST CURVE

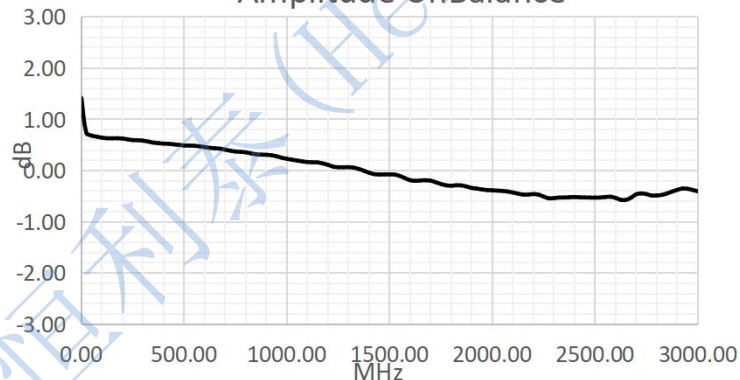
Insertion Loss: Pin 4 to Pin 3



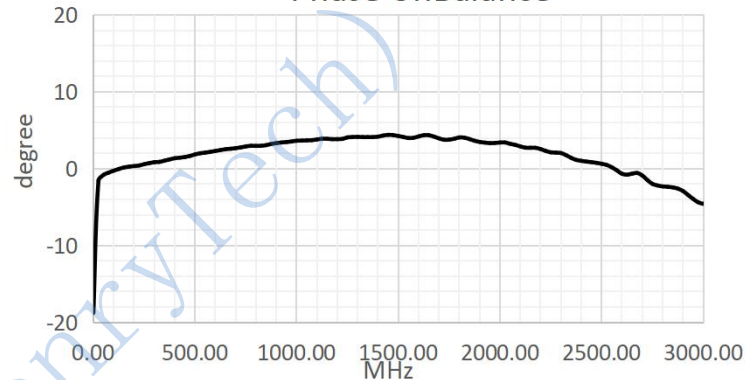
Insertion Loss: Pin 4 to Pin 1



Amplitude UnBalance



Phase UnBalance



Input Return Loss: Pin 4

