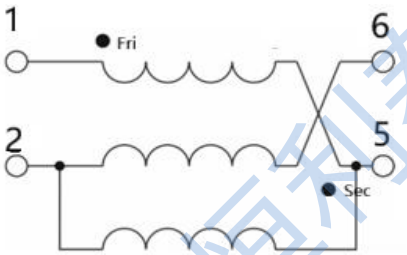
H3-MABA-011108

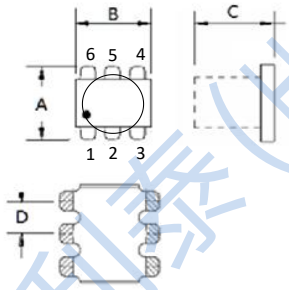
10-10000MHz 50Ω 1:1 Ratio Balun

- **APPLICATIONS**
- Differential modulator/demodulator and active mixers
- Wideband push-pull amplifiers
- LTE, Cellular, PCS, UMTS, WiFi, WiMAX
- **FEATURES**
- Surface mount
- Impedance ratio: 1:1
- Available on tape and reel
- RoHS compliant and Pb free
- 260℃ reflow compatible

FUNCTIONAL SCHEMATIC



DIMENSIONS

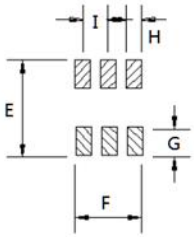


A	B	C
3.81	3.81	3.5 Max
D		
1.27		

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	

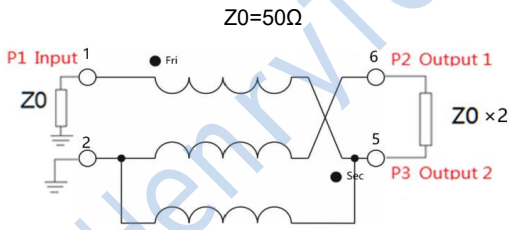
PIN CONFIGURATION

Pin No.	Function
1	Primary Dot (Input)
2	Primary (Ground)
3	Not used (Ground)
4	Not used (Ground)
5	Secondary Dot (Output 2)
6	Secondary (Output 1)

ELECTRICAL SPECIFICATIONS@25℃:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			50/ 25/ 25		Ohm
Balanced Insertion Loss	5-500MHz		1.6	1.9	dB
	500-1000MHz		1.4	1.6	dB
	1000-6000MHz		1.3	1.7	dB
	6000-8000MHz		1.9	2.9	dB
	8000-10000MHz		2.4	-	dB
Amplitude Imbalance	5-3000MHz		0.4	0.8	dB
	3000-8000MHz		2.2	3.1	dB
	8000-10000MHz		2.0	-	dB
Phase Imbalance	5-500MHz		5	8	°
	500-8000MHz		12	20	°
	8000-10000MHz		4	-	°
Input Return Loss (Pin 1)	5-500MHz	13.0	17		dB
	500-3000MHz	10.0	18		dB
	3000-7000MHz	6.0	16		dB
	7000-8000MHz	5.0	13		dB
	8000-10000MHz	-	8		dB
Output Return Loss (Pin 5-6)	5-5500MHz	9.0	14		dB
	5500-8000MHz	5.0	13		dB
	8000-10000MHz	-	9		dB

APPLICATION & TEST CIRCUIT



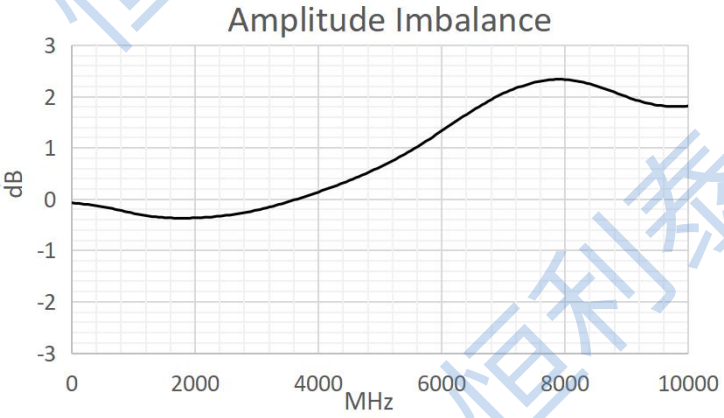
ABSOLUTE MAXIMUM RATINGS

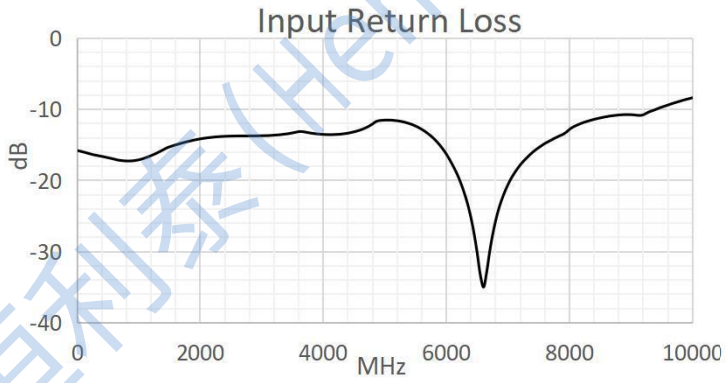
Parameter	Value
Input Power	1W MAX
DC Current	1A MAX
Operating Temperature Range	-45 to 125℃

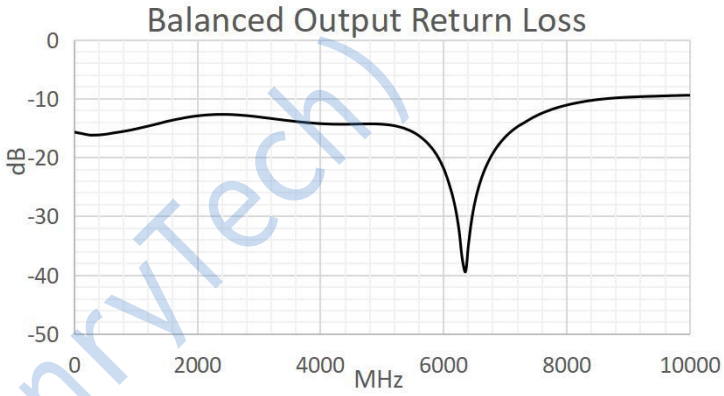
Tel: +86-28-85589664
E-mail: mr_li@henglitaitech.com
Web: www.hltchips.com
Adress:Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuxi Road, Jinniu District, Chengdu City

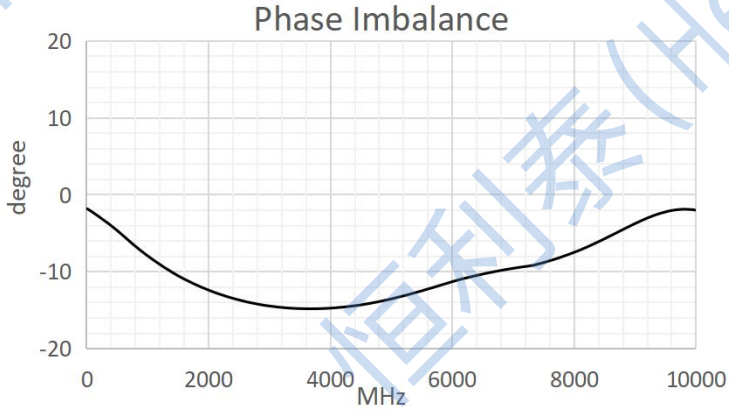
TEST CURVE











Tel: +86-28-85589664
E-mail: mr_li@henglitaitech.com
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