



H3-MABA-011118

10-10000MHz 50Ω 1:2 Ratio Balun

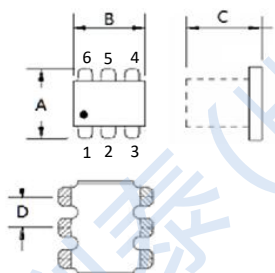
• APPLICATIONS

- Differential modulator/demodulator and active mixers
- Wideband push-pull amplifiers
- LTE, Cellular, PCS, UMTS, WiFi, WiMAX

• FEATURES

- Surface mount
- Impedance ratio: 1:2
- Available on tape and reel
- RoHS compliant and Pb free
- 260℃ reflow compatible

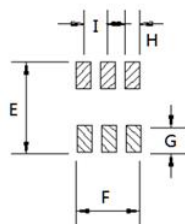
DIMENSIONS



A	B	C
3.81	3.81	3.45 Max
D		
1.27		

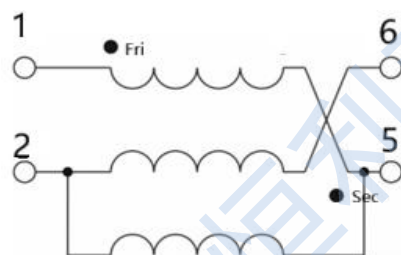
Unless otherwise stated dimensions are in mm
Tolerance: .xx ± 0.25, .xxx ± 0.05

Land Pattern



E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

FUNCTIONAL SCHEMATIC



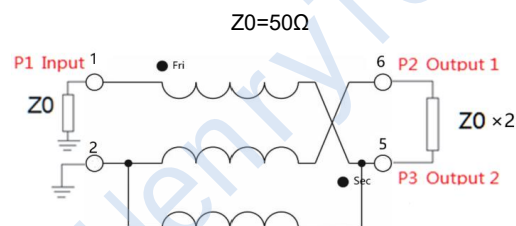
PIN CONFIGURATION

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)			50/50/50		Ohm
Balanced Insertion Loss	10-1000MHz		2.0	2.4	dB
	1000-4000MHz		1.0	1.7	dB
	4000-7000MHz		1.7	2.3	dB
	7000-8500MHz		1.4	2.0	dB
	8500-10000MHz		1.7	-	dB
Amplitude Balance	10-2000MHz		0.3	0.8	dB
	2000-4000MHz		1.2	1.8	dB
	4000-8500MHz		1.6	2.5	dB
	8500-10000MHz		0.7	-	dB
Phase Unbalance	10-2000MHz		10	15	°
	2000-7000MHz		12	16	°
	7000-8500MHz		6	10	°
	8500-10000MHz		8	-	°
Input Return Loss (Pin 1)	10-2000MHz	12.0	14		dB
	2000-4000MHz	13.0	20		dB
	4000-7000MHz	7.0	13		dB
	7000-8500MHz	8.0	11		dB
	8500-10000MHz	-	9		dB
Output Return Loss (Pin 5-6)	10-1000MHz	6.0	8		dB
	1000-4000MHz	8.0	12		dB
	4000-7000MHz	5.0	8		dB
	7000-8500MHz	8.0	10		dB
	8500-10000MHz	-	7		dB

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

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

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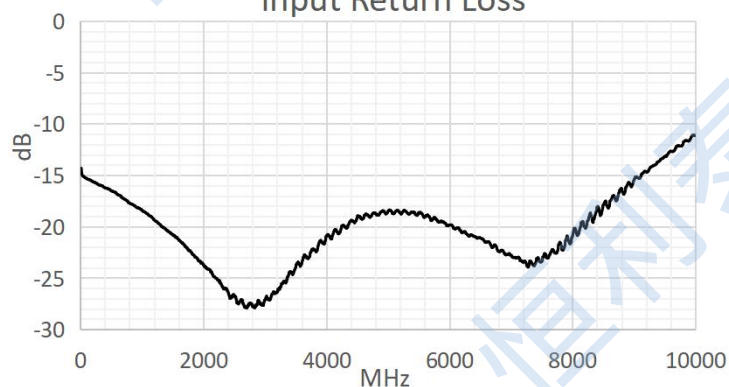


TEST CURVE

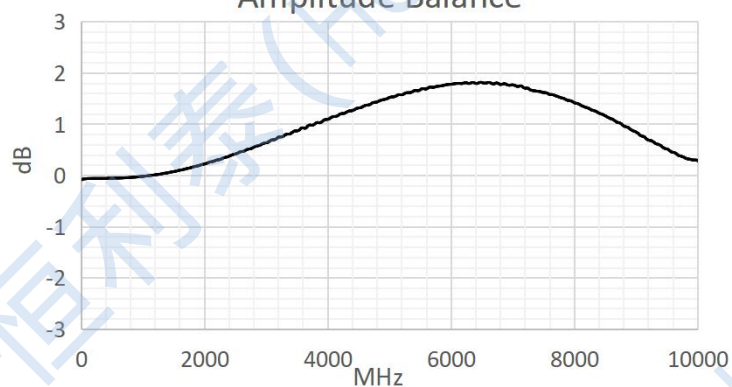
Balanced Insertion Loss



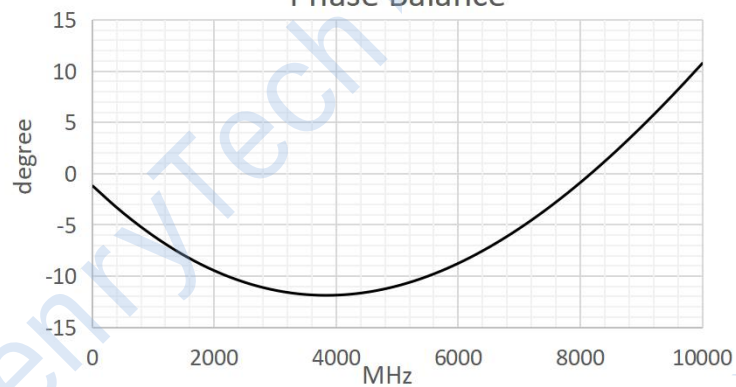
Input Return Loss



Amplitude Balance



Phase Balance



Balanced Output Return Loss

