

H3-MABACT0040

5-1218MHz 75Ω 1:1 Ratio Balun

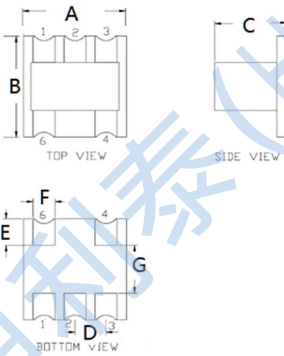
APPLICATIONS

Ideally suitable for CATV broadband applications.

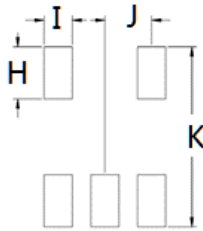
FEATURES

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

DIMENSIONS



Land Pattern



A	B	C	D	H	I	J
4.21	4.21	2.70Max	1.27	1.40	0.76	1.27
E	F	G				
1.11	0.90	2.00				
				K		
				4.83		

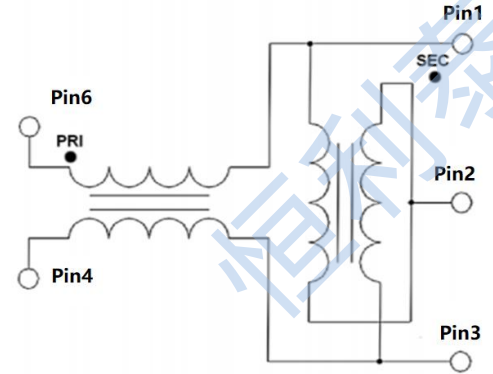
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			75		Ohm
Insertion Loss	5-1218MHz		1.0	1.6	dB
Amplitude Balance	5-1000MHz		0.7	±0.5	dB
	1000-1218MHz			±0.7	dB
Phase Balance (Nominal 180 °)	5-1218MHz		2.5	±10	°
Input Return Loss	5-1218MHz	16	22		dB

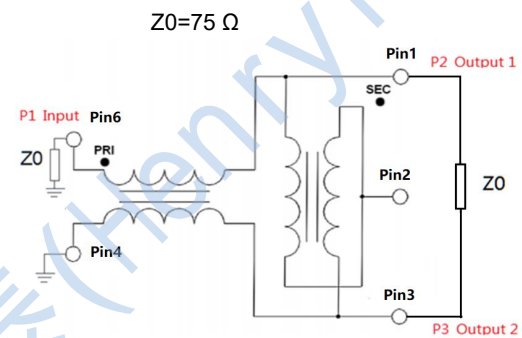
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Secondary Dot (output 1)
2	Secondary center tap (ground)
3	Secondary (output 2)
4	Primary (ground)
6	Primary Dot (input)

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power	500mW Max
DC Current	500mA Max
Operating Temperature Range	-40 to 105°C

Tel: +86-28-85589664

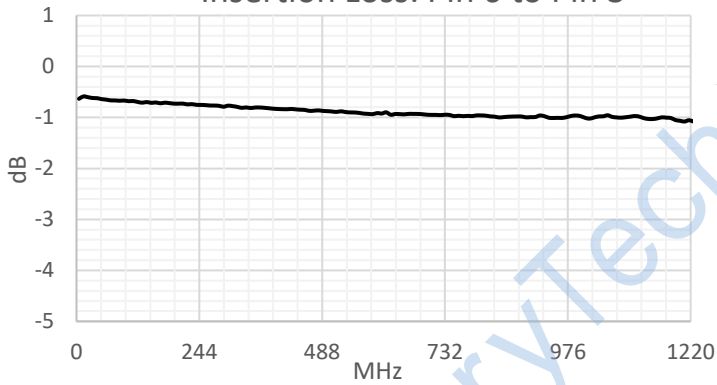
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

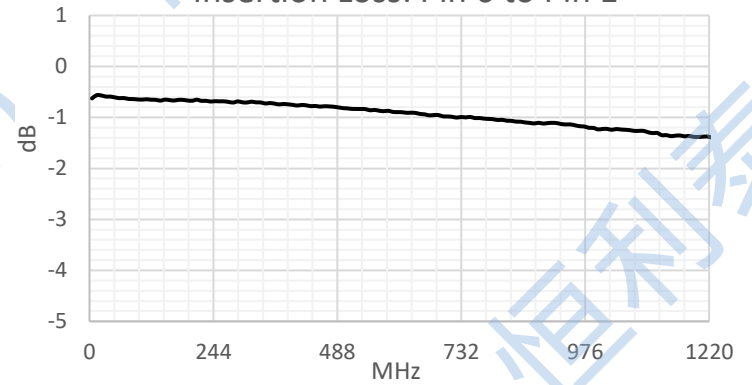
Address: Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuxi Road, Jinniu District, Chengdu City

TEST CURVE

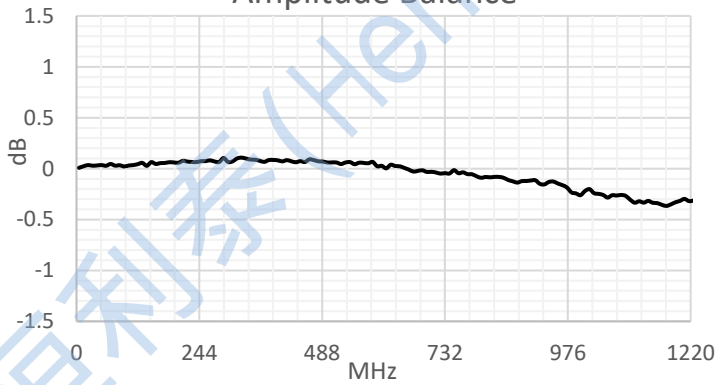
Insertion Loss: Pin 6 to Pin 3



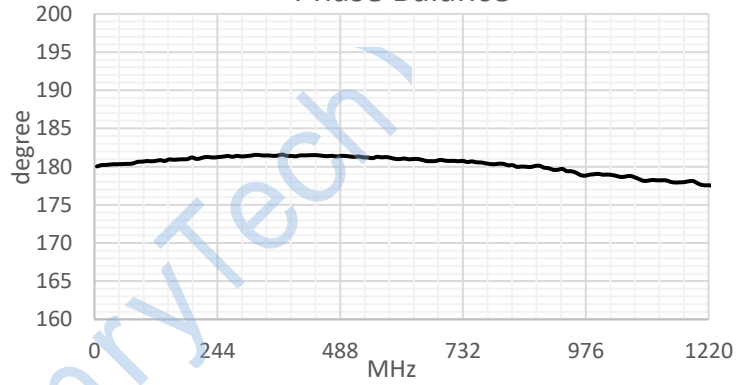
Insertion Loss: Pin 6 to Pin 1



Amplitude Balance



Phase Balance



Input Return Loss: Pin 6

