

## H3-MABA-008757-CT1160

4.5-3000MHz 50Ω 1:1 Balun

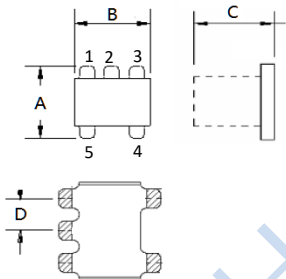
### APPLICATIONS

• Ideally suited for high volume cellular and wireless application.

### FEATURES

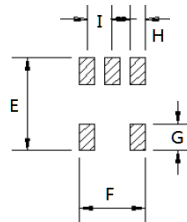
- Surface mount
- Impedance ratio: 1:1
- Available on tape and reel
- RoHS compliant and Pb free
- 260°C reflow compatible

### DIMENSIONS



|      |      |      |
|------|------|------|
| A    | B    | C    |
| 3.81 | 3.81 | 2.90 |
| D    |      |      |
| 1.27 |      |      |

### Land Pattern



|      |      |      |
|------|------|------|
| E    | F    | G    |
| 4.83 | 3.30 | 1.40 |
| H    | J    |      |
| 0.76 | 1.27 |      |

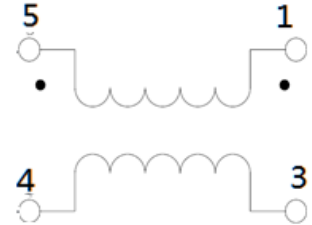
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

### ELECTRICAL SPECIFICATIONS@25°C:

| Parameters (P#: ENA PORT)         | frequency band | Min. | Typ.       | Max. | Unit |
|-----------------------------------|----------------|------|------------|------|------|
| Port Impedance, Z0 (P1 / P2 / P3) |                |      | 50/ 25/ 25 |      | Ohm  |
| Insertion Loss<br>Pin 4 to Pin3   | 4.5-1000MHz    |      | 0.6        | 1.0  | dB   |
|                                   | 1000-2000MHz   |      | 1.7        | 2.0  | dB   |
|                                   | 2000-2500MHz   |      | 2.4        | 5.0  | dB   |
|                                   | 2000-3000MHz   |      | 2.5        | 6.5  | dB   |
| Insertion Loss<br>Pin 4 to Pin1   | 4.5-1000MHz    |      | 0.6        | 1.0  | dB   |
|                                   | 1000-2000MHz   |      | 0.7        | 2.0  | dB   |
|                                   | 2000-2500MHz   |      | 1.1        | 6.0  | dB   |
|                                   | 2000-3000MHz   |      | 2.0        | 8.4  | dB   |
| Amplitude Balance                 | 4.5-20MHz      |      | 1.0        | 1.2  | dB   |
|                                   | 20-1000MHz     |      | 0.3        | 1.0  | dB   |
| Phase Balance (Nominal 180°)      | 4.5-1000MHz    |      | 0.1        | ±20  | °    |
| Input Return Loss                 | 4.5-1000MHz    | 16.0 | 21         |      | dB   |

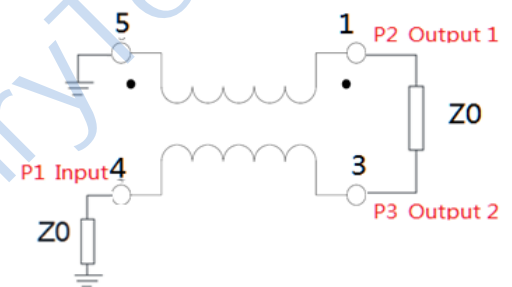
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

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

### APPLICATION & TEST CIRCUIT



### ABSOLUTE MAXIMUM RATINGS

| Parameter                   | Value       |
|-----------------------------|-------------|
| Input Power                 | 250mW MAX   |
| DC Current                  | 30mA MAX    |
| Operating Temperature Range | -40 to 85°C |

Tel: +86-28-85589664

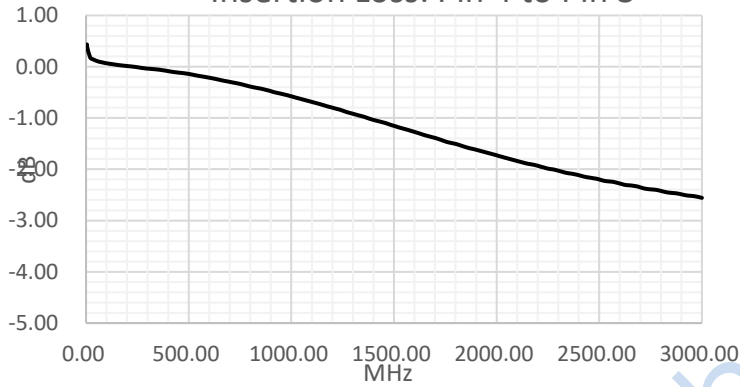
E-mail: mr\_li@henglitaitech.com

Web: www.hltchips.com

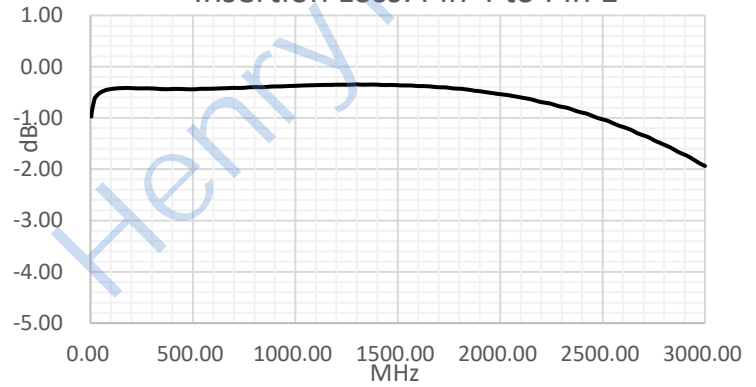
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

## TEST CURVE

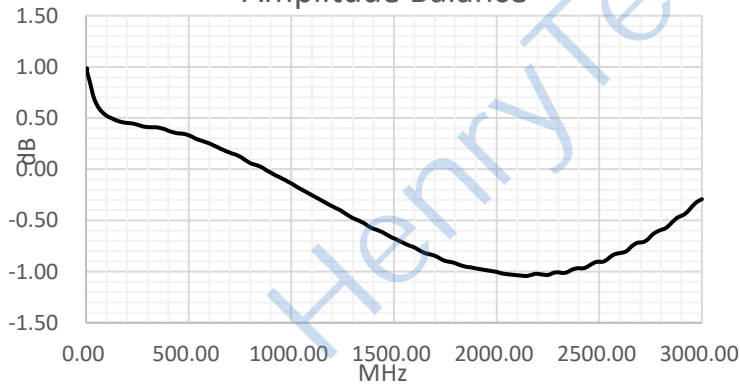
Insertion Loss: Pin 4 to Pin 3



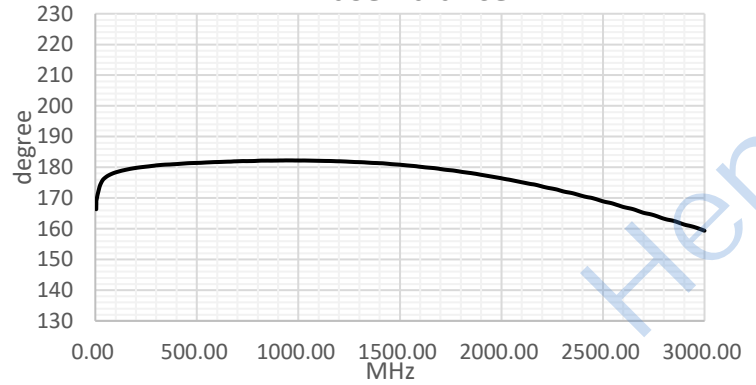
Insertion Loss: Pin 4 to Pin 1



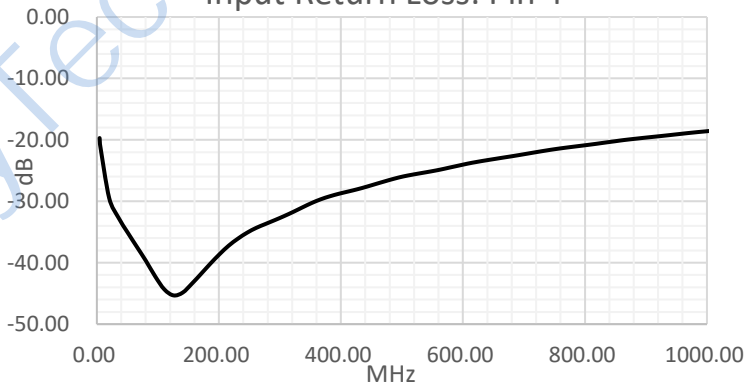
Amplitude Balance



Phase Balance



Input Return Loss: Pin 4



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