

H3-MABA-011002

5-200MHz 75Ω 4:1 Balun

APPLICATIONS

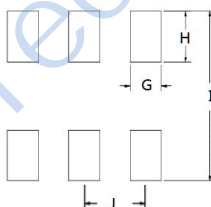
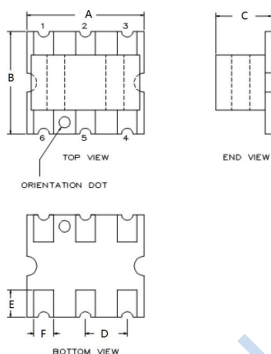
Ideally suitable for CATV broadband applications.

FEATURES

- Surface mount
- Impedance ratio: 4:1
- Excellent performance under DC bias current, also when current flows is imbalanced through outputs
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

Land Pattern



| | | |
|------|------|---------|
| A | B | C |
| 7.11 | 6.35 | 4.35Max |
| D | E | F |
| 2.54 | 1.70 | 1.20 |

| | | |
|------|------|------|
| G | H | I |
| 1.30 | 2.15 | 6.71 |
| J | | |
| 2.54 | | |

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) | | | 75 / 9.375/ 9.375 | | Ohm |
| Insertion Loss 1 (pin6-pin1) | 5-50MHz | | 0.5 | 0.8 | dB |
| | 50-150MHz | | 1.6 | 2.2 | dB |
| | 150-200MHz | | 2.0 | 3.1 | dB |
| Insertion Loss 2 (pin6-pin3) | 5-50MHz | | 0.7 | 0.8 | dB |
| | 50-150MHz | | 2.1 | 2.5 | dB |
| | 150-200MHz | | 3.1 | 3.6 | dB |
| Phase Balance (ref value 180°) | 5-50MHz | | 2.0 | 4.0 | Deg |
| | 50-200MHz | | 4.0 | 9.0 | Deg |
| Amplitude Balance | 5-50MHz | | 0.2 | 0.4 | dB |
| | 50-150MHz | | 0.3 | 1.0 | dB |
| | 150-200MHz | | 0.4 | 1.4 | dB |
| Input Return Loss (pin6) | 5-25MHz | 17.0 | 20.0 | | dB |
| | 25-50MHz | 12.0 | 15.0 | | dB |
| | 50-150MHz | 5.0 | 9.0 | | dB |
| | 150-200MHz | 3.0 | 6.0 | | dB |

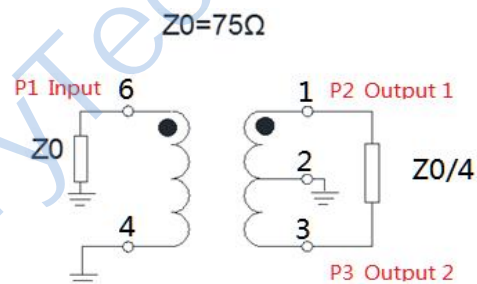
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

| Pin No. | Function |
|---------|-------------------------|
| 1 | Secondary Dot (output1) |
| 2 | Center tap (ground) |
| 3 | Secondary (output2) |
| 4 | Primary (ground) |
| 5 | Not used(ground) |
| 6 | Primary Dot (input) |

APPLICATION & TEST CIRCUIT



ABSOLUTE MAXIMUM RATINGS

| Parameter | Value |
|---|-------------|
| Input RF Power | 1W Max |
| Internal Load Dissipation | 0.125W Max |
| Tested up to DC bias current, will perform above this level | 900mA Max |
| Operating Temperature Range | -40 to 85°C |

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TEST CURVE

