

## H3-MACP-010388-CK0A40

5-1200MHz 75Ω 20dB Coupler

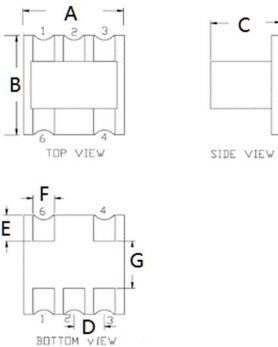
### • APPLICATIONS

• Ideally suited for CATV Broadband applications.

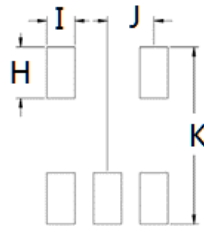
### • FEATURES

- Surface mount
- 20dB Coupler
- RoHS compliant and Pb free
- Available on tape and reel

### DIMENSIONS



### Land Pattern



|      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| A    | B    | C    | D    | H    | I    | J    |
| 4.30 | 4.30 | 2.65 | 1.27 | 1.40 | 0.76 | 1.27 |
| E    | F    | G    |      | K    |      |      |
| 1.11 | 0.90 | 2.00 |      | 4.83 |      |      |

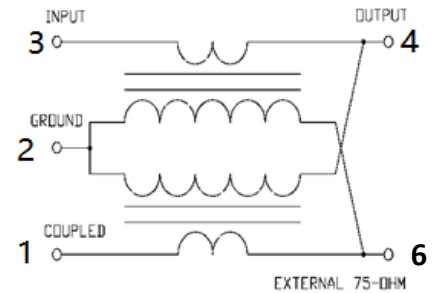
Unless otherwise stated dimensions are in mm

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  |
| Coupling                  | 5 - 870 MHz     | 19.2 | 20.2 | 20.8 | dB   |
|                           | 870 - 1002 MHz  | 19.1 | 19.4 | 20.8 | dB   |
|                           | 1002 - 1200 MHz | 18.4 | 19.2 | 20.8 | dB   |
| Main Line Loss            | 5 - 50 MHz      |      | 0.42 | 0.7  | dB   |
|                           | 50 - 870 MHz    |      | 0.45 | 0.65 | dB   |
|                           | 870 - 1002 MHz  |      | 0.6  | 0.7  | dB   |
|                           | 1002 - 1200 MHz |      | 0.65 | 0.85 | dB   |
| Input Return Loss         | 5 - 1002 MHz    | 19   | 27   |      | dB   |
|                           | 1002 - 1200 MHz | 16   | 19   |      | dB   |
| Output Return Loss        | 5 - 1002 MHz    | 20   | 30   |      | dB   |
|                           | 1002 - 1200 MHz | 17   | 20   |      | dB   |
| Coupled Return Loss       | 5 - 1002 MHz    | 17   | 28   |      | dB   |
|                           | 1002 - 1200 MHz | 15   | 17   |      | dB   |
| Directivity               | 5 - 200 MHz     | 20   | 25   |      | dB   |
|                           | 200 - 870 MHz   | 10   | 16   |      | dB   |
|                           | 870 - 1002 MHz  | 8    | 11   |      | dB   |
|                           | 1002 - 1200 MHz | 7    | 10   |      | dB   |

### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

| Pin No. | Function        |
|---------|-----------------|
| 1       | Coupled         |
| 2       | Ground          |
| 3       | Input           |
| 4       | Output          |
| 6       | External 75 Ohm |

### ABSOLUTE MAXIMUM RATINGS

| Parameter                   | Value        |
|-----------------------------|--------------|
| RF Power                    | 250 mW Max   |
| DC Current                  | 200mA Max    |
| Operating Temperature Range | -40 to 85°C  |
| Storage Temperature         | -55 to 125°C |

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## TEST CURVE

