



## H3-RDC-20-252-5WX+

30-2500MHz 50Ω 20dB Coupler

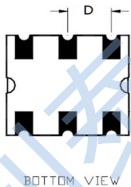
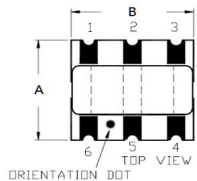
## • APPLICATIONS

- Ideally suited for CATV Broadband applications.

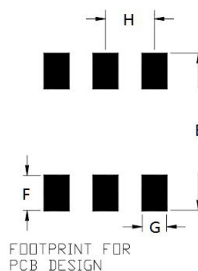
## • FEATURES

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

## DIMENSIONS



## Land Pattern



| A    | B    | C      |
|------|------|--------|
| 6.35 | 7.11 | 3.5Max |
| D    |      |        |
| 2.54 |      |        |

| E    | F    | G    |
|------|------|------|
| 7.87 | 1.78 | 1.27 |
| H    |      |      |
| 2.54 |      |      |

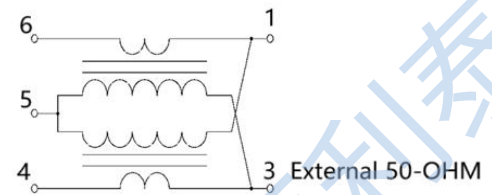
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

## ELECTRICAL SPECIFICATIONS@25℃:

| Parameters (P#: ENA PORT)       | frequency band | Min. | Typ.  | Max. | Unit |
|---------------------------------|----------------|------|-------|------|------|
| Port Impedance, Z0(P1/P2/P3/P4) |                |      | 50    |      | Ohm  |
| Coupling                        | 30 - 2500 MHz  |      | ±20.5 |      | dB   |
| Coupling Flatness(±)            | 30 - 2500 MHz  |      | 1.0   | 2.0  | dB   |
| Main Line Loss                  | 30-1000 MHz    |      | 0.6   | 0.8  | dB   |
|                                 | 1000-2000 MHz  |      | 0.9   | 1.1  | dB   |
|                                 | 2000-2500 MHz  |      | 1.1   | 1.6  | dB   |
| Input Return Loss               | 30-1000 MHz    | 17   | 19    |      | dB   |
|                                 | 1000-2000 MHz  | 16   | 18    |      | dB   |
|                                 | 2000-2500 MHz  | 14   | 16    |      | dB   |
| Output Return Loss              | 30-1000 MHz    | 17   | 19    |      | dB   |
|                                 | 1000-2000 MHz  | 14   | 16    |      | dB   |
|                                 | 2000-2500 MHz  | 11   | 14    |      | dB   |
| Coupled Return Loss             | 30-1000 MHz    | 13   | 18    |      | dB   |
|                                 | 1000-2000 MHz  | 11   | 16    |      | dB   |
|                                 | 2000-2500 MHz  | 10   | 15    |      | dB   |
| Directivity                     | 30-1000 MHz    |      | 16    |      | dB   |
|                                 | 1000-2000 MHz  |      | 15    |      | dB   |
|                                 | 2000-2500 MHz  |      | 14    |      | dB   |

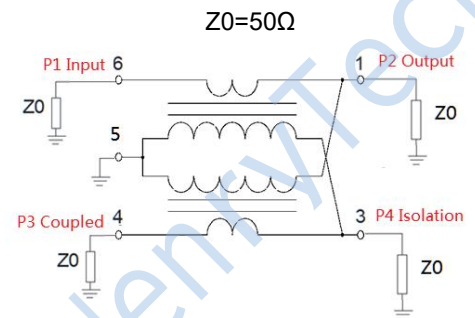
## FUNCTIONAL SCHEMATIC



## PIN CONFIGURATION

| Pin No. | Function        |
|---------|-----------------|
| 1       | Output          |
| 2       | Not Connected   |
| 3       | External 50 Ohm |
| 4       | Coupled         |
| 5       | Ground          |
| 6       | Input           |

## APPLICATION &amp; TEST CIRCUIT



## ABSOLUTE MAXIMUM RATINGS

| Parameter                   | Value       |
|-----------------------------|-------------|
| Input RF Power              | 5W Max      |
| Storage Temperature Range   | -55 to 100℃ |
| Operating Temperature Range | -40 to 85℃  |

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## TEST CURVE

