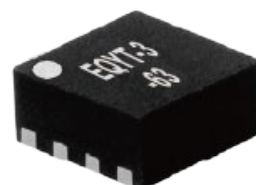
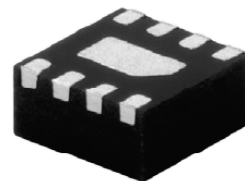


#### Features

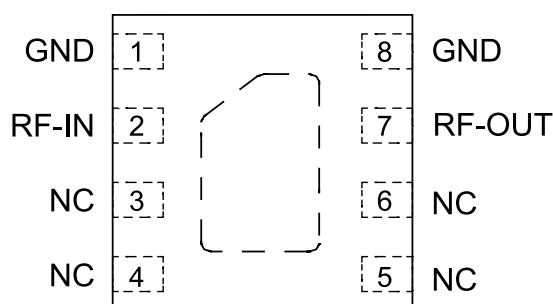
- 3.2 dB Slope
- Negative Insertion Loss Slope vs. Frequency
- Wideband operation, DC to 6 GHz
- Excellent Power Handling Capability
- Small Size and simple to use (2 mm x 2 mm)
- Human Body Model (HBM): Class 2 (Pass 2000V)



#### Applications

- Cellular
- PCS
- Communications
- Radar
- Defense

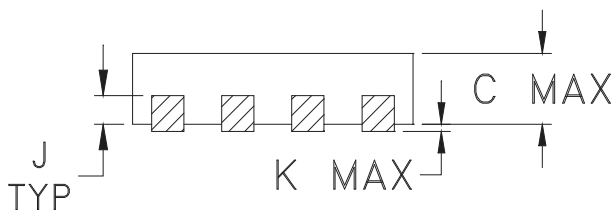
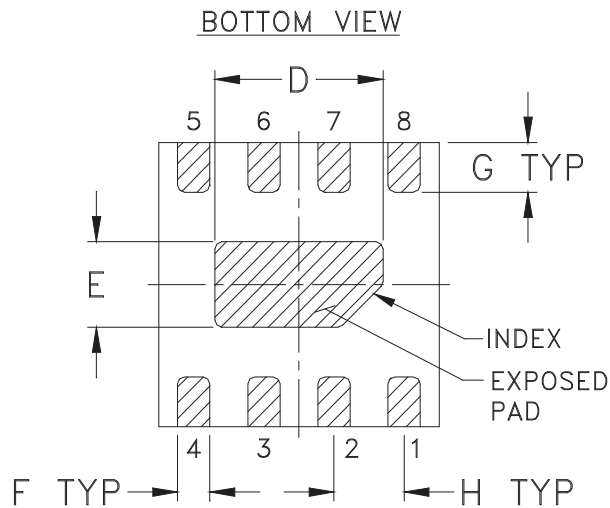
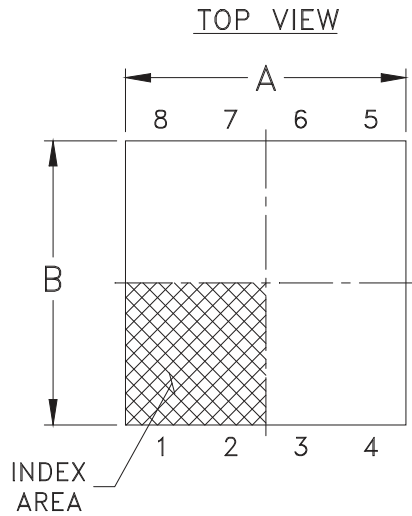
TOP VIEW



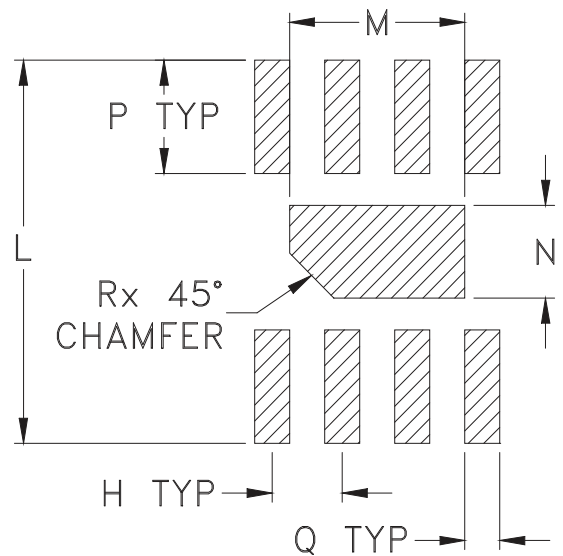
#### Electrical specifications at 25°C

| Parameter                                | Condition (GHz) | Min. | Typ. | Max. | Units |
|------------------------------------------|-----------------|------|------|------|-------|
| Frequency Range                          |                 | DC   |      | 6    | GHz   |
| Insertion Loss                           | 0.01            | 3.4  | 3.8  | 4.1  | dB    |
|                                          | 1               | -    | 3.6  | -    |       |
|                                          | 2               | -    | 3.1  | -    |       |
|                                          | 3               | 2.1  | 2.4  | 2.8  |       |
|                                          | 4               | -    | 1.7  | -    |       |
|                                          | 5               | -    | 1.0  | -    |       |
| VSWR                                     | 6               | 0.2  | 0.6  | 0.9  | :1    |
|                                          | 0.01-1          | -    | 1.04 | -    |       |
|                                          | 1-2             | -    | 1.08 | -    |       |
|                                          | 2-3             | -    | 1.14 | -    |       |
|                                          | 3-4             | -    | 1.17 | -    |       |
|                                          | 4-5             | -    | 1.18 | -    |       |
| Input RF Power                           | 5-6             | -    | 1.29 | -    | dBm   |
|                                          |                 | 31   |      |      |       |
| <b>Operating &amp; Storage Condition</b> |                 |      |      |      |       |
| Operation Temperature Range: -40℃ ~ +85℃ |                 |      |      |      |       |
| Storage Temperature Range: -65℃ ~ +150℃  |                 |      |      |      |       |

#### Outline Drawing



#### PCB Land Pattern



| A              | B              | C              | D              | E             | F             | G             | H             | J             | K             | L              | M              |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|
| .079<br>(2.00) | .079<br>(2.00) | .039<br>(1.00) | .047<br>(1.20) | .024<br>(.60) | .009<br>(.23) | .014<br>(.35) | .020<br>(.50) | .008<br>(.20) | .002<br>(.05) | .106<br>(2.70) | .049<br>(1.25) |
| N              | P              | Q              | R              | WT, GRAM      |               |               |               |               |               |                |                |
| .026<br>(.65)  | .031<br>(.80)  | .010<br>(.25)  | .012<br>(.30)  | .006          |               |               |               |               |               |                |                |

Units= inches (mm)

Tolerances=±.005 (±.13)

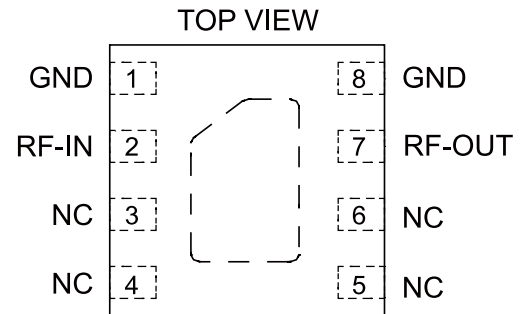
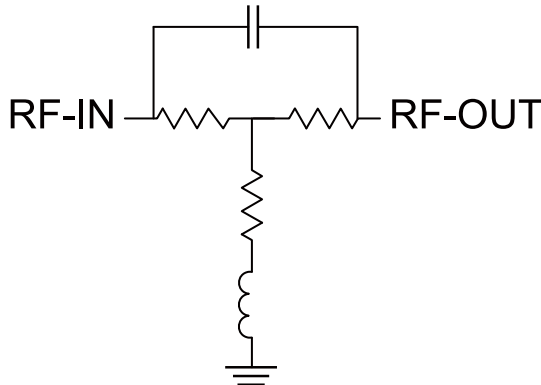
#### Yantel Corporation

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For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)

#### Simplified Schematic And Pad Description



| Function | Pad Number   | Description                                   |
|----------|--------------|-----------------------------------------------|
| RF-IN    | 2            | RF-Input pad                                  |
| RF-OUT   | 7            | RF-Output pad                                 |
| GND      | 1,8 & Paddle | Ground                                        |
| NC       | 3-6          | No connection, connected to ground externally |

#### Characterization Test Circuit

