



### Features and Benefits

Center frequency: 434.17MHz  
I.L: 3.5dB Max.  
Operating temperature: -45°C to +125°C  
Size: 3x3x1.4mm  
Package type: Surface Mount

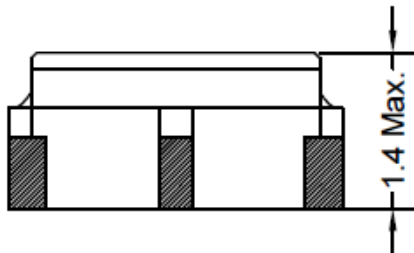


### Typical Applications

IOT  
Cellular  
Telecom  
4G/LTE  
Wireless Communication  
WLAN  
Base Station  
Radar

### Mechanical Drawing & Pin Connections

Drawing No: MD240080-1



| PIN    | Function |
|--------|----------|
| #2     | INPUT    |
| #5     | OUTPUT   |
| Others | GND      |

Unit in mm  
1mm = 0.0394 inches  
Not Specified Tolerance: ±0.2mm



## Specifications

Ambient Temperature: 25°C

| Parameter   | Min. | Typical    | Max. | Units     |
|---|------|------------|------|-----------|
| Center Frequency Fc                                   |      | 434.17     |      | MHz       |
| 3dB BW  |      | 1          |      | MHz       |
| Insertion Loss<br>Incl. loss of matching elements *1) |      | 2.6        | 3.5  | dB        |
| Passband (Relative to IL) *1)                         |      |            |      |           |
| 433.8~434.54 MHz                                      |      | 1.9        | 2.5  | dB        |
| 433.76~434.54 MHz                                     |      | 2.4        | 3.5  | dB        |
| Attenuation (Relative to IL) *1)                      |      |            |      |           |
| 10~360 MHz  | 50   | 54         |      | dB        |
| 360~415 MHz   | 43   | 46         |      | dB        |
| 415~425 MHz   | 40   | 43         |      | dB        |
| 425~431 MHz   | 29   | 33         |      | dB        |
| 431~432.5 MHz   | 18   | 26         |      | dB        |
| 432.5~433.2 MHz                                       | 9    | 22         |      | dB        |
| 435.1~435.5 MHz                                       | 9    | 11         |      | dB        |
| 435.5~437 MHz   | 12   | 15         |      | dB        |
| 437~445 MHz   | 19   | 21         |      | dB        |
| 445~460 MHz   | 33   | 37         |      | dB        |
| 460~550 MHz   | 43   | 46         |      | dB        |
| 550~1000 MHz  | 52   | 64         |      | dB        |
| 1000~2500 MHz   | 50   | 64         |      | dB        |
| Input Zin=Rin    Cin                                  |      | 650    2.8 |      | ohm    pF |
| Output Zout=Rout    Cout                              |      | 650    2.8 |      | ohm    pF |
| Input Power Level                                     |      | 10         |      | dBm       |
| DC Voltage  |      | 0          |      | V         |
| Operating Temperature Range                           | -45  |            | +125 | °C        |
| Storage Temperature Range                             | -45  |            | +125 | °C        |

1):The matching circuit is real by actual passive components.  
 0805 Coilcraft CS series chip conductor is used for inductor.  
 0402 muRata GRM series is used for capacitor.