



Features and Benefits

Center frequency: 433.92MHz
I.L: 3.4dB Max.
Operating temperature: -40°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

Spec. Temperature: -40°C to +95°C

| Parameter | Min. | Typical | Max. | Units |
|--|------|----------------|------|-------|
| Center Frequency Fc | | 433.92 | | MHz |
| 1.5dB BW | 300 | 550 | | KHz |
| 3dB BW | | 670 | 900 | KHz |
| Insertion Loss IL | | | | |
| Incl. loss of matching elements(Q=) *1) | | 2.6 | 3.4 | dB |
| Exclude loss in matching elements *2) | | 2.4 | 3.2 | dB |
| Passband (Relative to IL) *1) (433.77~434.07 MHz) | | 0.5 | 3 | dB |
| Attenuation (Relative to IL) *1) | | | | |
| 10~420 MHz | 47 | 55 | | dB |
| 420~427 MHz | 43 | 50 | | dB |
| 427~432 MHz | 27 | 33 | | dB |
| 432~433 MHz | 17 | 24 | | dB |
| 435~436 MHz | 15 | 21 | | dB |
| 436~445 MHz | 21 | 27 | | dB |
| 445~450 MHz | 44 | 51 | | dB |
| 450~2000 MHz | 42 | 49 | | dB |
| Impedance at Fc, Input *1) Zin=Rin/Cin Zs | | 130 ohm//1.3pF | | ohm |
| Impedance at Fc, Output *1) Zout=Rout/Cout ZL | | 157 ohm//1.1pF | | ohm |
| Input Power Level | | 10 | | dBm |
| DC Voltage | | 6 | | V |
| Operating Temperature Range | -40 | | +125 | °C |
| Storage Temperature Range | -40 | | +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.

*2): The matching circuit is ideal by simulation.