

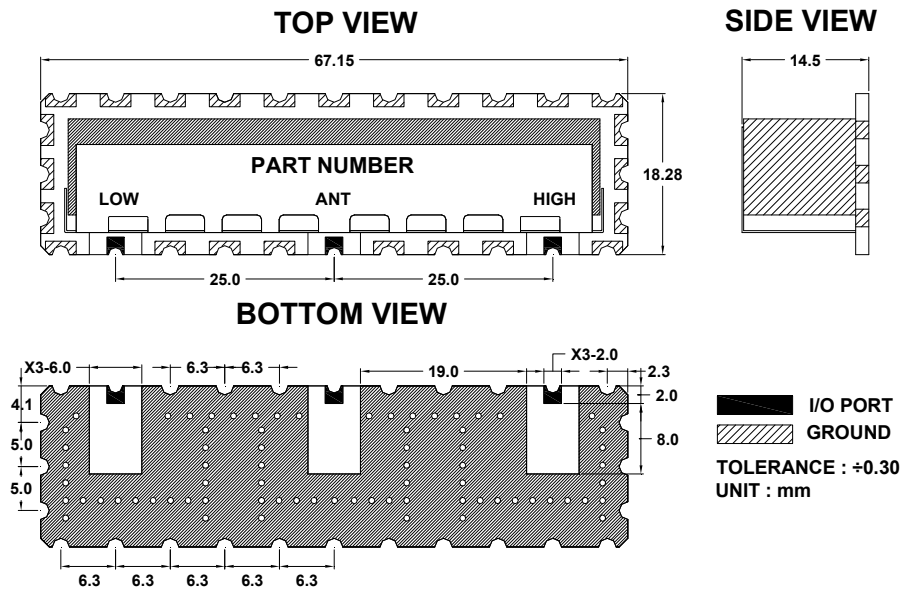
# Ceramic DUPLEXER IDD08273

## 821.5 MHz / 866.5 MHz

### Features

- Ceramic Duplexer
- Usable bandwidth 5 MHz each Rx And Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package ( 67.15mm × 18.28mm × 14.5mm )

### Package Dimension




| Pin Configuration |             |
|-------------------|-------------|
| Description       | Function    |
| RX (819 ~ 824MHz) | RECEIVER    |
| ANT               | ANTENNA     |
| TX (864 ~ 869MHz) | TRANSMITTER |

### Maximum Ratings

| Parameter                   | Unit | Minimum | Typical | Maximum |
|-----------------------------|------|---------|---------|---------|
| Operating Temperature Range | °C   | -40     | 25      | +85     |
| Storage Temperature Range   | °C   | -40     | -       | +85     |

Electrostatics Sensitive Device (ESD)

|   |   |           |           |     |
|---|---|-----------|-----------|-----|
|  | <b>ITF Co., Ltd.</b><br>102-901, Bucheon Technopark 364,<br>Samjeong-Dong, Ojeong-Gu, Bucheon-City,<br>Gyeonggi-Do, Korea 421-809 | Part No.  | IDD08273  |     |
|   |   | Rev. Date | 2014-9-16 |     |
|   |   | Rev.      | AS01      | 1/2 |

# Ceramic DUPLEXER IDD08273

## 821.5 MHz / 866.5 MHz

### Specification


Fo = 821.5 MHz / 866.5 MHz

| ANT to Rx                               |      | Minimum                               | Typical | Maximum |
|---|------|---------------------------------------|---------|---------|
| Insertion loss (821.5 MHz +/-2.5 MHz)   | dB   | -                                     | 1.0     | 1.2     |
| Amplitude Ripple (821.5 MHz +/-2.5 MHz) | dB   | -                                     | 0.3     | 0.5     |
| Return Loss (821.5 MHz +/-2.5 MHz)      | dB   | 18                                    | 20      | -       |
| Input power (821.5 MHz +/-2.5 MHz)      | Watt | 10W > 50000 Hours, CW tone (Ta=+50°C) |         |         |
| Relative Attenuation<br>864 ~ 869 MHz   | dB   | 60                                    | 65      | -       |

| Tx to ANT                               |      | Minimum                               | Typical | Maximum |
|---|------|---------------------------------------|---------|---------|
| Insertion loss (866.5 MHz +/-2.5 MHz)   | dB   | -                                     | 1.0     | 1.2     |
| Amplitude Ripple (866.5 MHz +/-2.5 MHz) | dB   | -                                     | 0.3     | 0.5     |
| Return Loss (866.5 MHz +/-2.5 MHz)      | dB   | 18                                    | 20      | -       |
| Input power (866.5 MHz +/-2.5 MHz)      | Watt | 10W > 50000 Hours, CW tone (Ta=+50°C) |         |         |
| Relative Attenuation<br>819 ~ 824 MHz   | dB   | 60                                    | 65      | -       |

### Notes :

- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 3 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements are measured absolute to insertion loss

|   |   |           |           |     |
|---|---|-----------|-----------|-----|
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|   |   | Rev. Date | 2014-9-16 |     |
|   |   | Rev.      | AS01      | 2/2 |