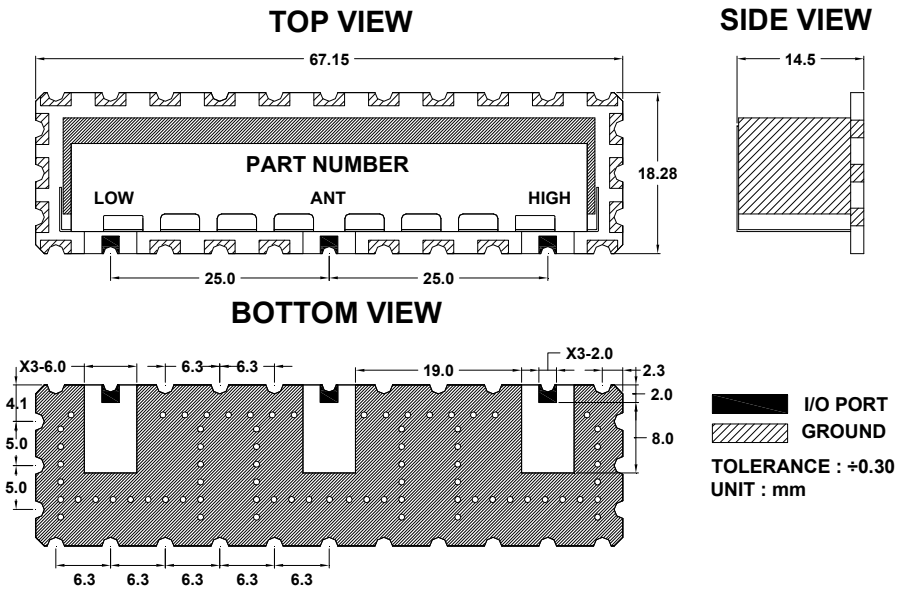
Ceramic DUPLEXER IDD09175

910 MHz / 955 MHz

Features

- Ceramic Duplexer
- Usable bandwidth 10 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 (905 ~ 915MHz)	RECEIVER
ANT	ANTENNA
TX (950 ~ 960MHz)	TRANSMITTER

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-40	25	+85
Storage Temperature Range	℃	-40	-	+85

Electrostatics Sensitive Device (**ESD**)

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Specification

Fo = 910MHz / 955 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (910 MHz +/-5 MHz)	dB	-	1.0	1.2
Amplitude Ripple (910 MHz +/-5 MHz)	dB	-	0.3	0.5
Return Loss (910 MHz +/-5 MHz)	dB	18	20	-
Input power (910 MHz +/-5 MHz)	Watt	10W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 950 ~ 960 MHz	dB	60	63	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (955 MHz +/-5 MHz)	dB	-	1.0	1.2
Amplitude Ripple (955 MHz +/-5 MHz)	dB	-	0.3	0.5
Return Loss (955 MHz +/-5 MHz)	dB	18	20	-
Input power (955 MHz +/-5 MHz)	Watt	10W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 890 ~ 915 MHz	dB	60	63	-

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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Frequency Response

■ **Ant to Rx and Tx to Ant**

