

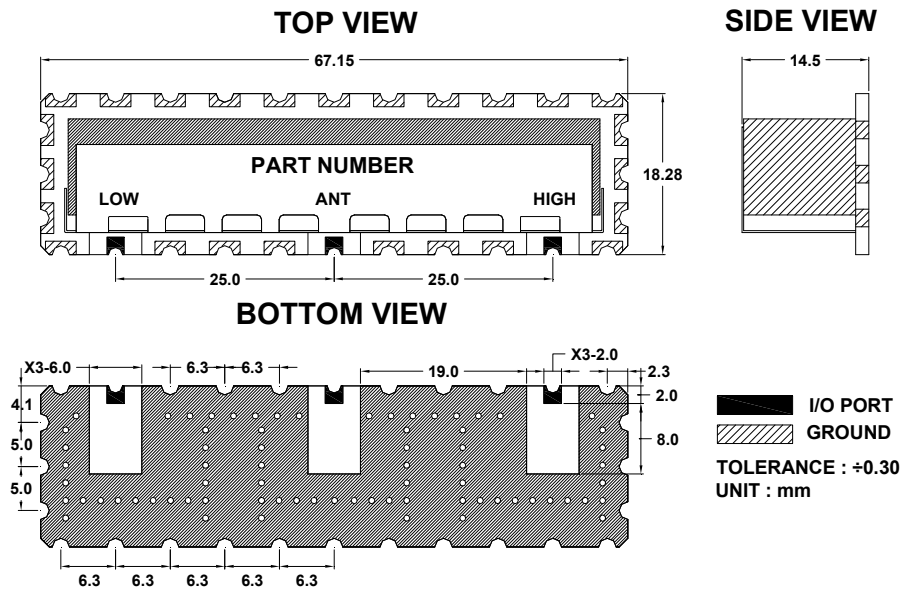
# Ceramic DUPLEXER IDD09175

## 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	°C	-40	25	+85
Storage Temperature Range	°C	-40	-	+85

Electrostatics Sensitive Device (ESD)

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	IDD09175	
		Rev. Date	2014-9-16	
		Rev.	AS01	1/3

# Ceramic DUPLEXER IDD09175

## 910 MHz / 955 MHz

### Specification


F<sub>o</sub> = 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

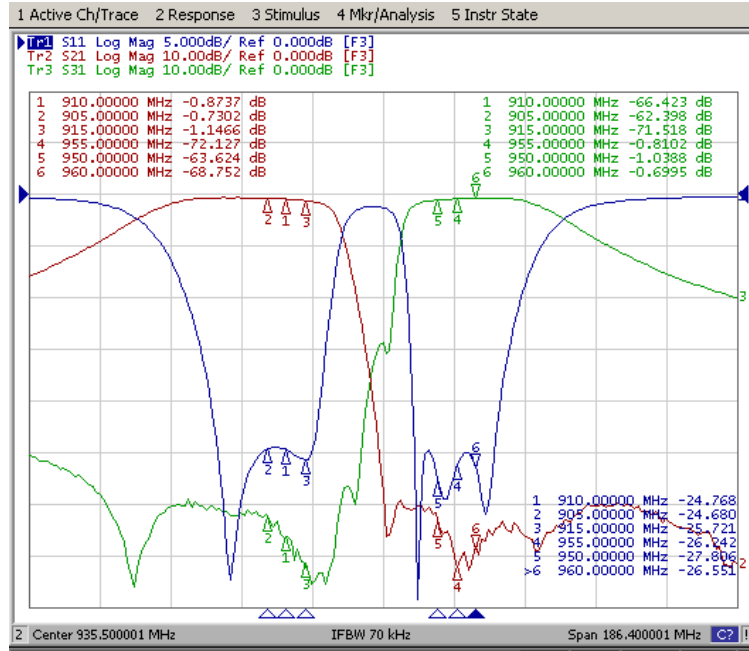
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	IDD09175	
		Rev. Date	2014-9-16	
		Rev.	AS01	2/3


# Ceramic DUPLEXER IDD09175

## 910 MHz / 955 MHz

### Frequency Response

■ Ant to Rx and Tx to Ant



	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	IDD09175	
		Rev. Date	2014-9-16	
		Rev.	AS01	3/3