

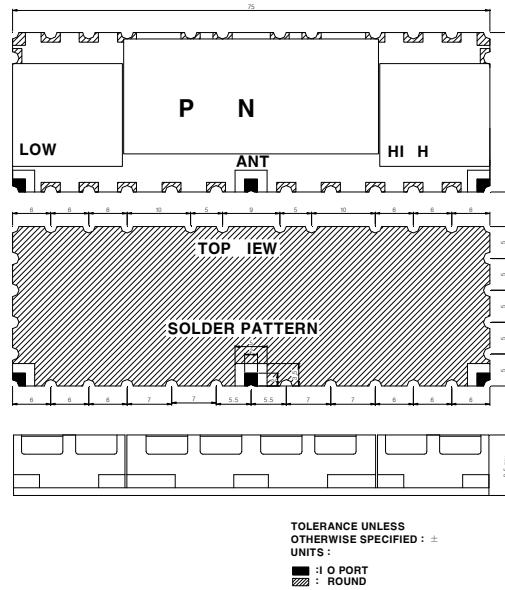
# Ceramic DUPLEXER IDD08072

## 808.5 MHz / 853.5 MHz

### Features

- Ceramic Duplexer
- Usable bandwidth 5 MHz each Rx And Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package ( 75mm × 25mm × 9.5mm )

### Package Dimension




Pin Configuration	
Description	Function
RX (806 ~ 811MHz)	RECEIVER
ANT	ANTENNA
TX (851 ~ 856MHz)	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.	IDD08072	
		Rev. Date	2014-9-16	
		Rev.	AS01	1/3

# Ceramic DUPLEXER IDD08072

## 808.5 MHz / 853.5 MHz

### Specification


F<sub>o</sub> = 808.5 MHz / 853.5 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (808.5 MHz +/-2.5 MHz)	dB	-	2.3	2.5
Amplitude Ripple (808.5 MHz +/-2.5 MHz)	dB	-	0.3	0.5
Return Loss (808.5 MHz +/-2.5 MHz)	dB	17	20	-
Input power (808.5 MHz +/-2.5 MHz)	Watt	2W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 850.5 ~ 855.5 MHz	dB	70	73	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (853.5 MHz +/-2.5 MHz)	dB	-	2.3	2.5
Amplitude Ripple (853.5 MHz +/-2.5 MHz)	dB	-	0.3	0.5
Return Loss (853.5 MHz +/-2.5 MHz)	dB	17	20	-
Input power (853.5 MHz +/-2.5 MHz)	Watt	2W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 805.5 ~ 810.5 MHz	dB	70	73	-

#### 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

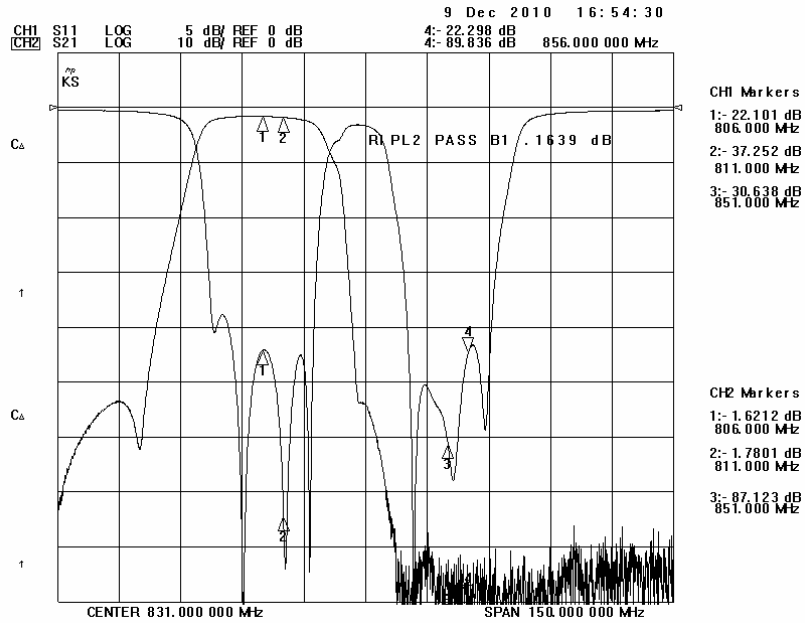
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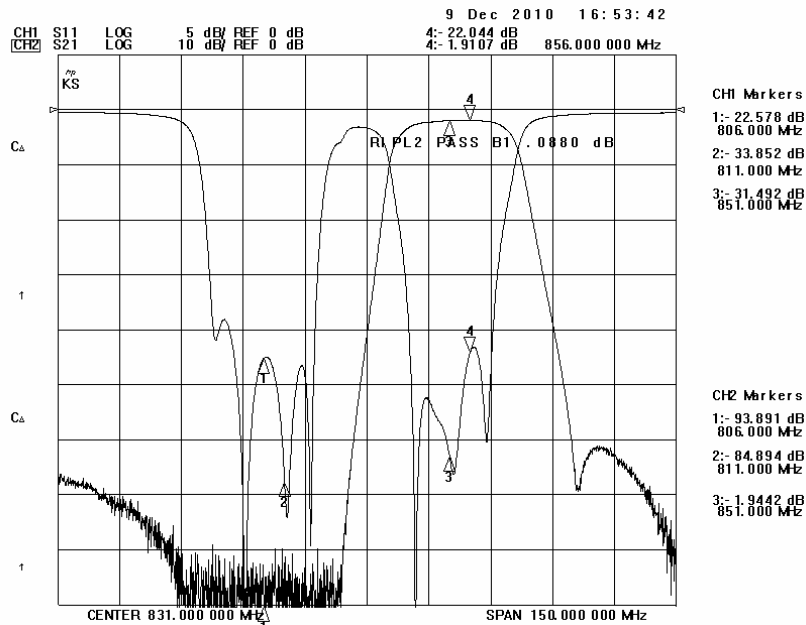
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### Frequency Response

#### ■ Ant to Rx



#### ■ Tx to Ant



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