

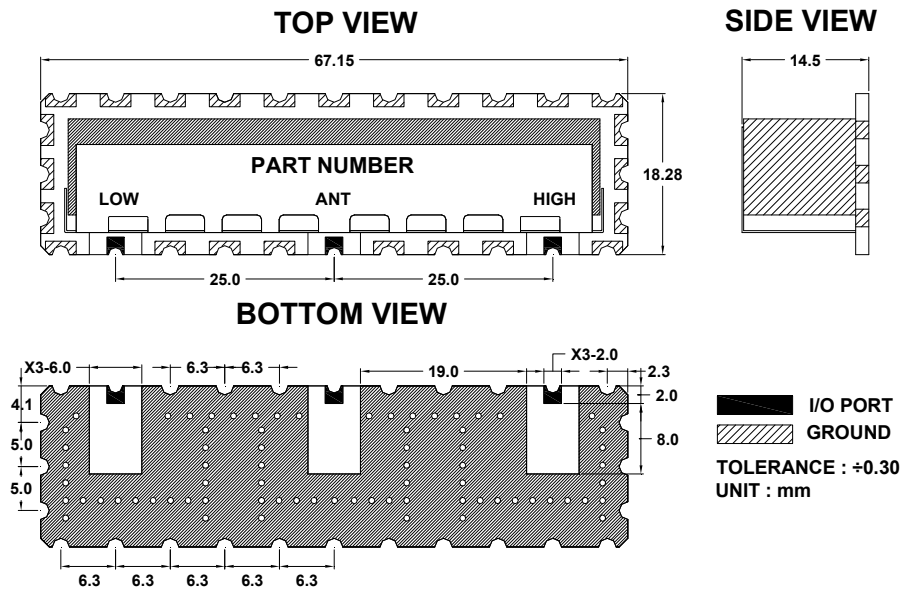
Ceramic DUPLEXER IDD09074

902.5 MHz / 947.5 MHz

Features

- Ceramic Duplexer
- Usable bandwidth 25 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 (890 ~ 915MHz)	RECEIVER
ANT	ANTENNA
TX (935 ~ 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)

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	IDD09074	
		Rev. Date	2014-9-16	
		Rev.	AS01	1/3

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Specification


Fo = 902.5 MHz / 947.5 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (902.5 MHz +/-12.5 MHz)	dB	-	1.5	2.0
Amplitude Ripple (902.5 MHz +/-12.5 MHz)	dB	-	0.8	1.0
Return Loss (902.5 MHz +/-12.5 MHz)	dB	18	20	-
Input power (902.5 MHz +/-12.5 MHz)	Watt	10W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation @ 925 MHz 935 ~ 960 MHz	dB	20 58	25 63	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (947.5 MHz +/-12.5 MHz)	dB	-	1.5	2.0
Amplitude Ripple (947.5 MHz +/-12.5 MHz)	dB	-	0.8	1.0
Return Loss (947.5 MHz +/-12.5 MHz)	dB	18	20	-
Input power (947.5 MHz +/-12.5 MHz)	Watt	10W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 890 ~ 915 MHz @ 925MHz	dB	58 20	63 25	-

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

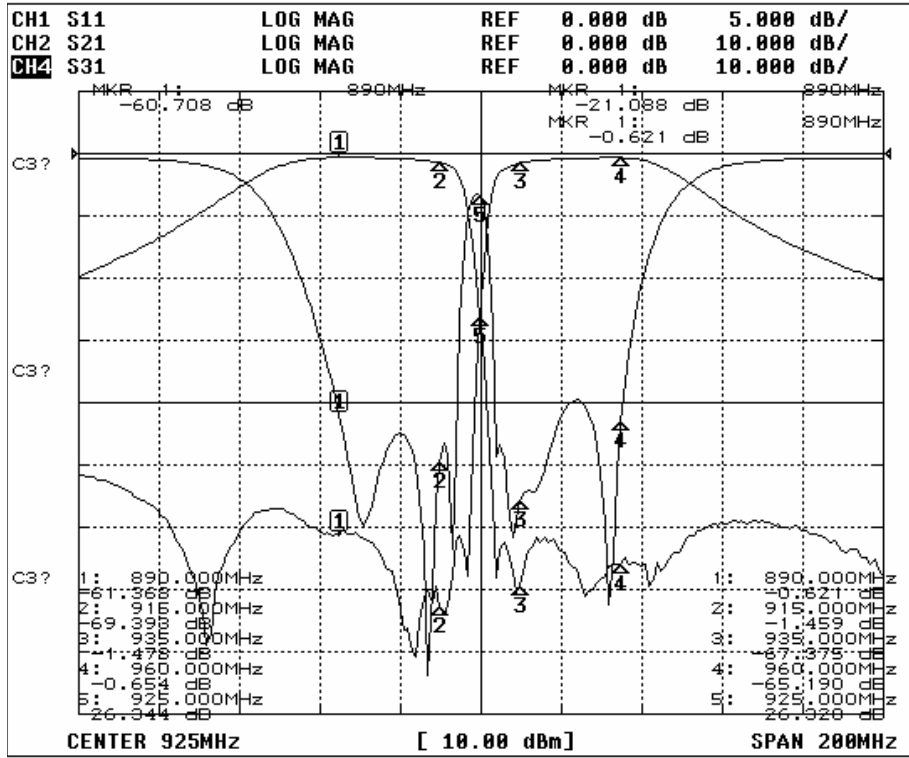
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Frequency Response

■ Ant to Rx and Tx to Ant



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