

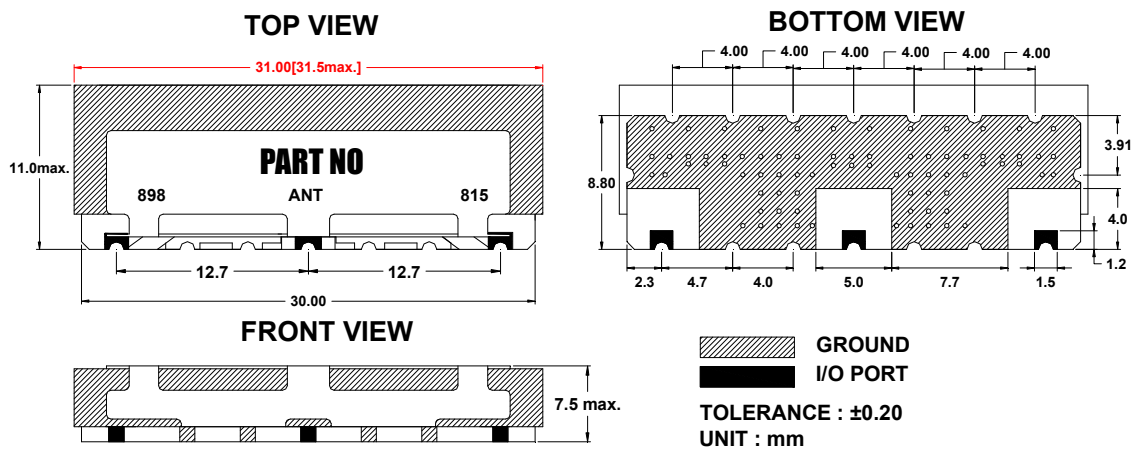
Ceramic DUPLEXER IDD08169

815 MHz / 898.5 MHz

Features

- Ceramic Duplexer
- Usable bandwidth 18 MHz Rx. And 5MHz Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package (31.5mm × 11mm × 7.5mm)

Package Dimension




Pin Configuration	
Description	Function
RX (806 ~ 824MHz)	RECEIVER
ANT	ANTENNA
TX (896 ~ 901MHz)	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.	IDD08169	
		Rev. Date	2014-9-16	
		Rev.	AS01	1/3

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815 MHz / 898.5 MHz

Specification


Fo = 815 MHz / 898.5 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (815 MHz +/-9 MHz)	dB	-	1.8	2.0
Amplitude Ripple (815 MHz +/-9 MHz)	dB	-	0.3	0.5
Return Loss (815 MHz +/-9 MHz)	dB	17	20	-
Input power (815 MHz +/-9 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation @ 865 MHz 896 ~ 901 MHz	dB	35 50	40 55	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (898.5 MHz +/-2.5 MHz)	dB	-	1.8	2.0
Amplitude Ripple (898.5 MHz +/-2.5 MHz)	dB	-	0.3	0.5
Return Loss (898.5 MHz +/-2.5 MHz)	dB	18	20	-
Input power (898.5 MHz +/-2.5 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 806 ~ 824 MHz @ 865 MHz	dB	50 35	55 35	-

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

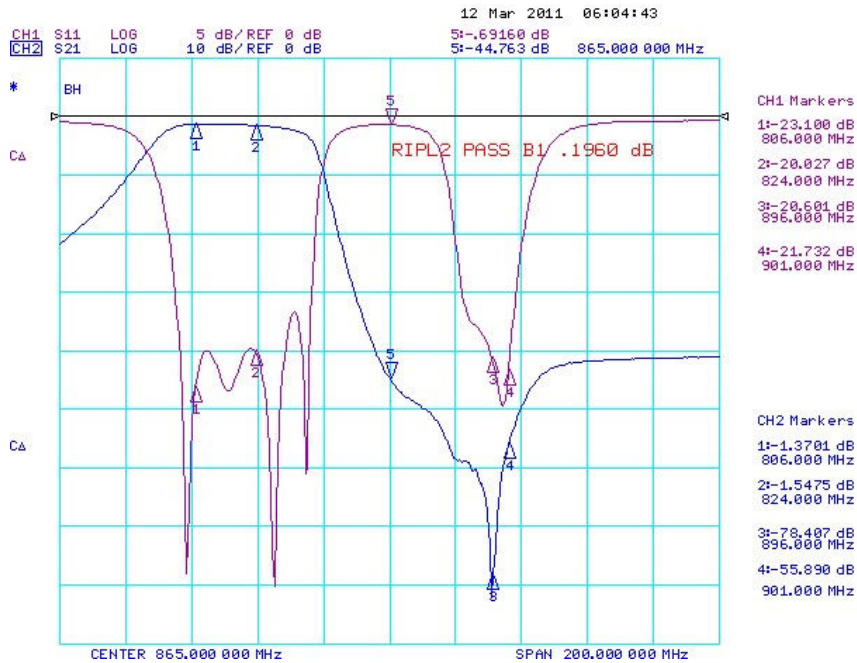
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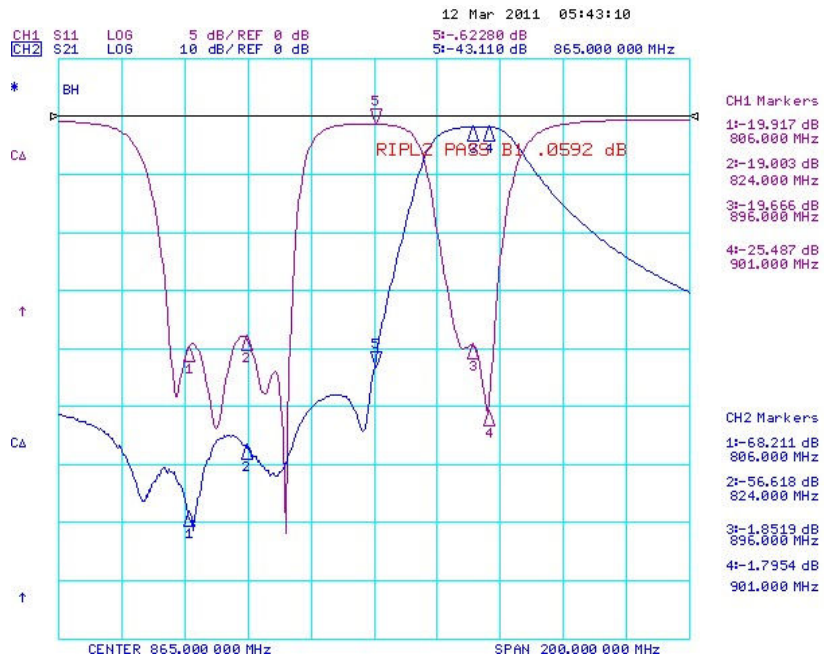
815 MHz / 898.5 MHz


Frequency Response

Ant to Rx



Tx to Ant



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