

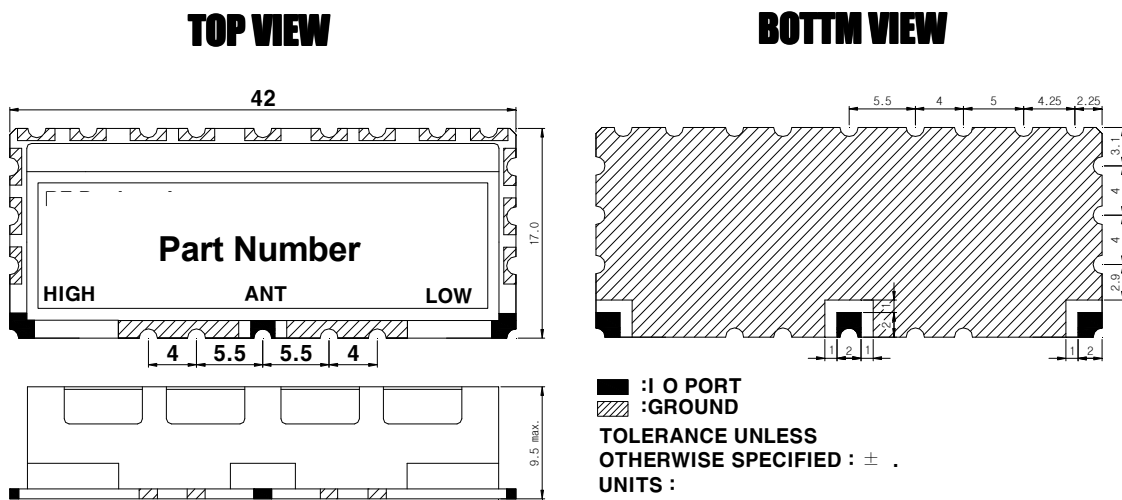
Ceramic DUPLEXER IDD08870

881.5 MHz / 836.5 MHz

Features

- Ceramic Duplexer
- Usable bandwidth 25 MHz each Rx And Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package (42mm × 17mm × 9.5mm)

Package Dimension



Pin Configuration	
Description	Function
RX (824 ~ 849MHz)	RECEIVER
ANT	ANTENNA
TX (869 ~ 894MHz)	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.	IDD08870	
		Rev. Date	2014-9-16	
		Rev.	AS01	1/3

Ceramic DUPLEXER IDD08870

881.5 MHz / 836.5 MHz

Specification


Fo = 881.5 MHz / 836.5 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (836.5 MHz +/-12.5 MHz)	dB	-	2.0	2.3
Amplitude Ripple (836.5 MHz +/-12.5 MHz)	dB	-	1.0	1.3
Return Loss (836.5 MHz +/-12.5 MHz)	dB	17	20	-
Input power (836.5 MHz +/-12.5 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation @ 859 MHz 869 ~ 894 MHz	dB	15 60	20 63	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (881.5 MHz +/-12.5 MHz)	dB	-	2.0	2.3
Amplitude Ripple (881.5 MHz +/-12.5 MHz)	dB	-	1.0	1.3
Return Loss (881.5 MHz +/-12.5 MHz)	dB	17	20	-
Input power (881.5 MHz +/-12.5 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 824 ~ 849 MHz @ 859 MHz	dB	60 15	63 20	-

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

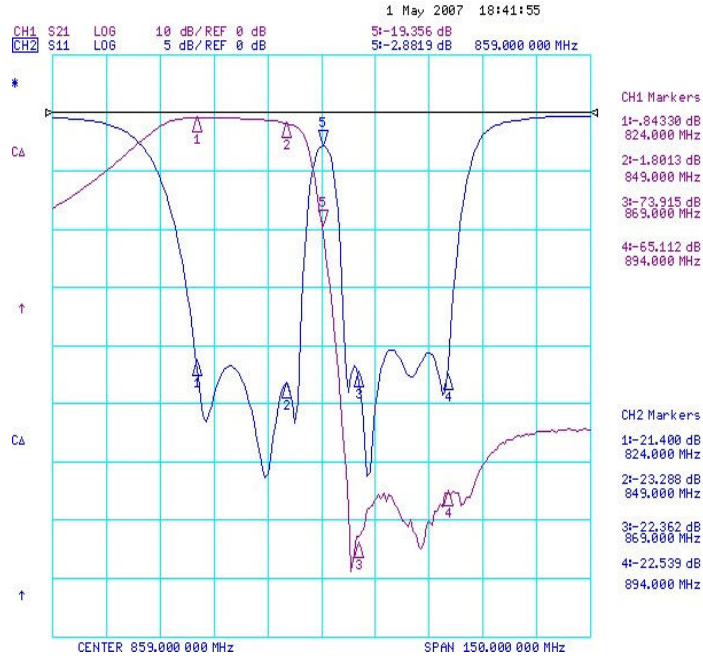
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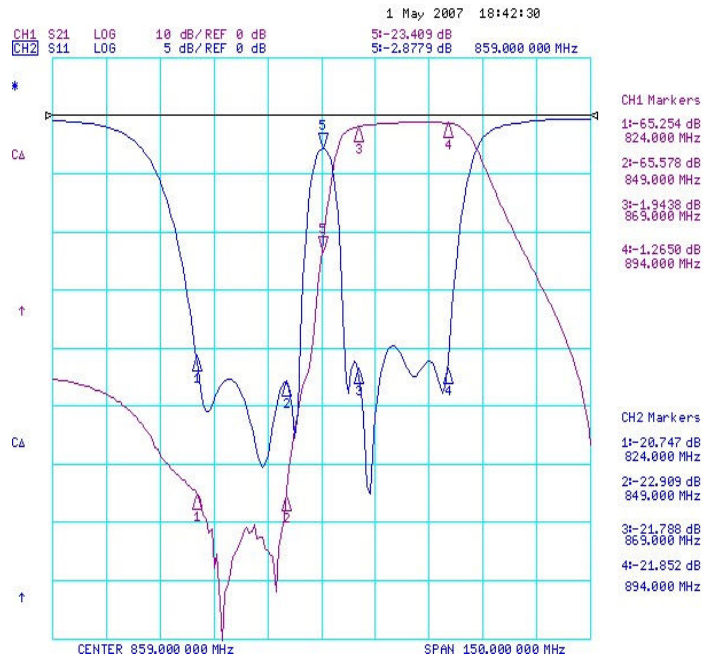
881.5 MHz / 836.5 MHz


Frequency Response

■ Ant to Rx



■ Tx to Ant



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