

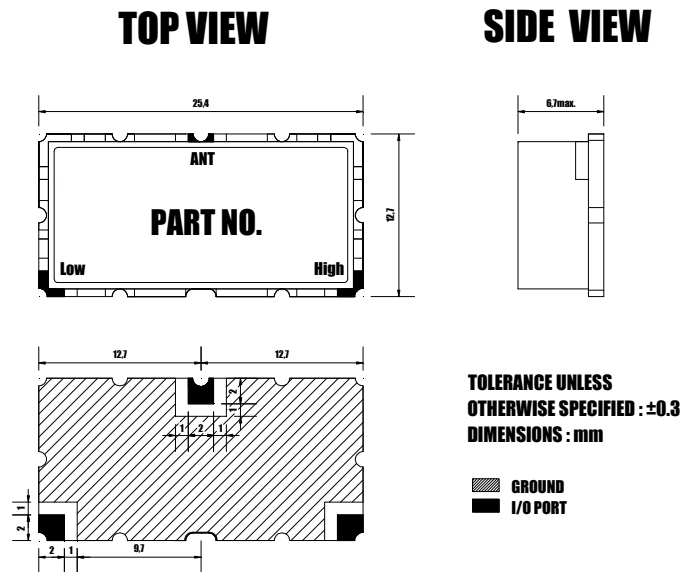
LC DUPLEXER IDD00740

70 MHz / 160 MHz

Features

- LC Duplexer
- Usable bandwidth 5 MHz Rx. And Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package (25.4mm × 12.7mm × 6.7mm)

Package Dimension




Pin Configuration	
Description	Function
RX (67.5~ 72.5MHz)	Low
ANT	ANTENNA
TX (157.5 ~ 162.5MHz)	High

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.	IDD00740	
		Rev. Date	2014-8-29	
		Rev.	AS01	1/3

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Specification


F_o = 70 MHz / 160 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (70 MHz +/-2.5 MHz)	dB	-	1.7	2.0
Amplitude Ripple (70 MHz +/-2.5 MHz)	dB	-	0.3	0.5
Return Loss (70 MHz +/-2.5 MHz)	dB	16	18	-
Input power (70 MHz +/-2.5 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation @ 160 MHz	dB	40	43	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (160 MHz +/-2.5 MHz)	dB	-	1.7	2.0
Amplitude Ripple (160 MHz +/-2.5 MHz)	dB	-	0.3	0.5
Return Loss (160 MHz +/-2.5 MHz)	dB	16	18	-
Input power (160 MHz +/-2.5 MHz)	Watt	3W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation @ 70 MHz	dB	40	43	-

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

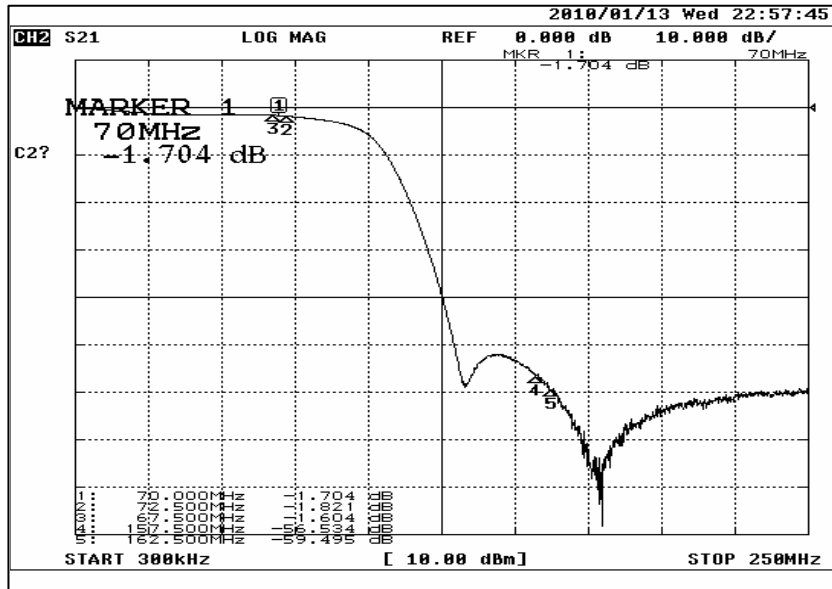
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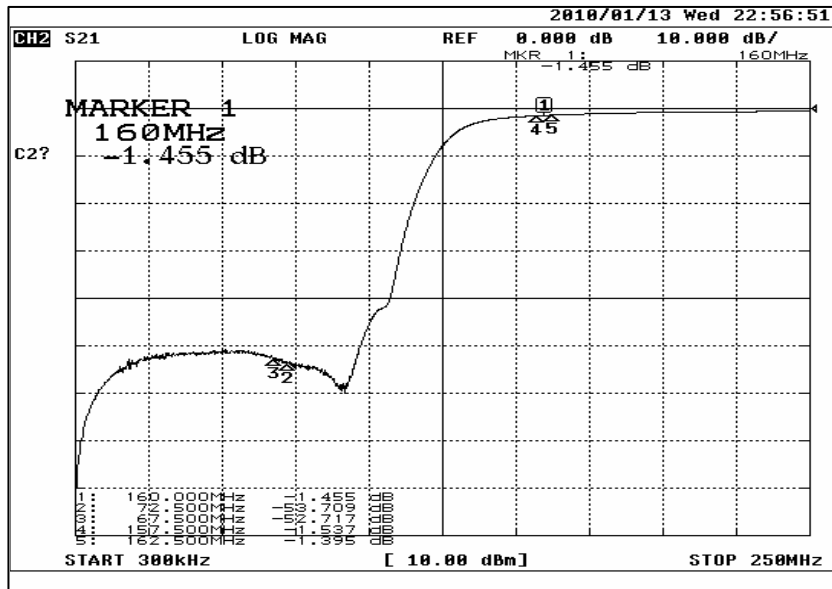
70 MHz / 160 MHz


Frequency Response

Ant to Rx



Tx to Ant



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