

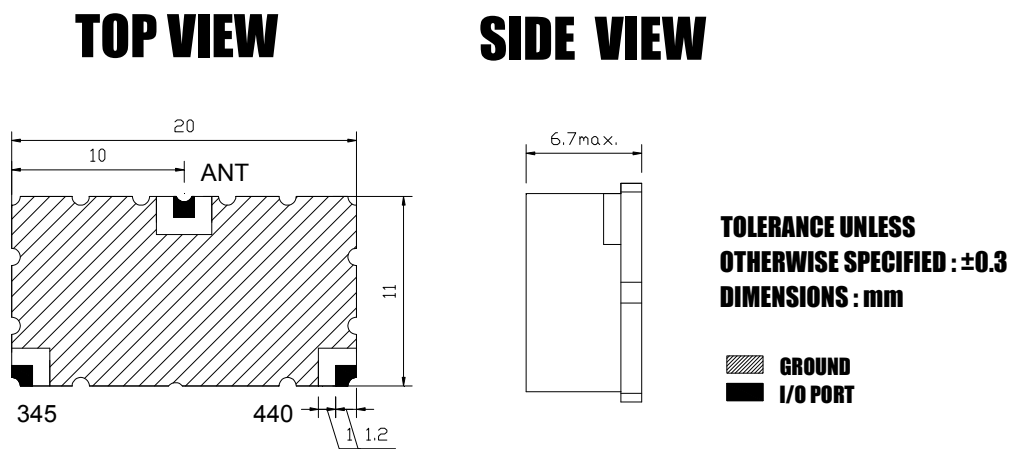
# LC DUPLEXER IDD03439

## 345.1MHz / 440.1 MHz

### Features

- LC Duplexer
- Usable bandwidth 9 MHz Rx. And Tx. band
- No matching / Antenna & Transmitter & Receiver Impedance 50Ω
- Surface Mounted Module Package ( 20mm × 11mm × 6.7mm )

### Package Dimension




Pin Configuration	
Description	Function
RX (340.6 ~ 349.6MHz)	Receiver
ANT	ANTENNA
TX (435.6 ~ 444.6MHz)	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.	IDD03439	
		Rev. Date	2014-8-29	
		Rev.	AS01	1/3

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## 345.1MHz / 440.1 MHz

### Specification


F<sub>o</sub> = 345.1 MHz / 440.1 MHz

ANT to Rx		Minimum	Typical	Maximum
Insertion loss (345.1 MHz +/-4.5 MHz)	dB	-	1.0	1.2
Amplitude Ripple (345.1 MHz +/-4.5 MHz)	dB	-	0.3	0.5
Return Loss (345.1 MHz +/-4.5 MHz)	dB	15	18	-
Input power (345.1 MHz +/-4.5 MHz)	Watt	1W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 435.6 ~ 444.6 MHz	dB	20	23	-

Tx to ANT		Minimum	Typical	Maximum
Insertion loss (440.1 MHz +/-4.5 MHz)	dB	-	1.0	1.2
Amplitude Ripple (440.1 MHz +/-4.5 MHz)	dB	-	0.3	0.5
Return Loss (440.1 MHz +/-4.5 MHz)	dB	15	18	-
Input power (440.1 MHz +/-4.5 MHz)	Watt	1W > 50000 Hours, CW tone (Ta=+50°C)		
Relative Attenuation 340.6 ~ 349.64 MHz	dB	20	23	-

### 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

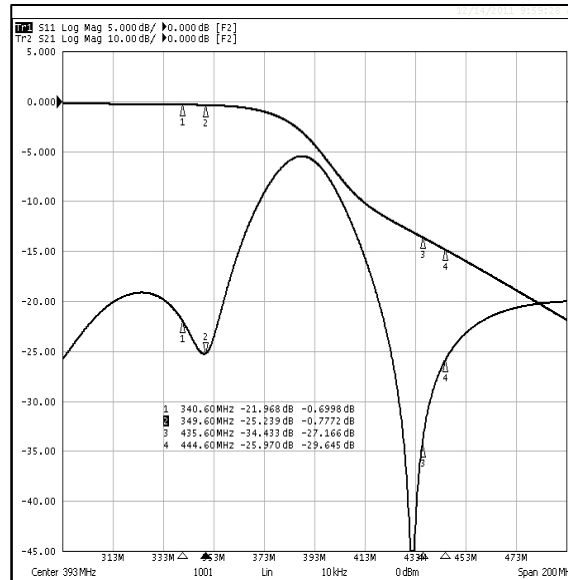
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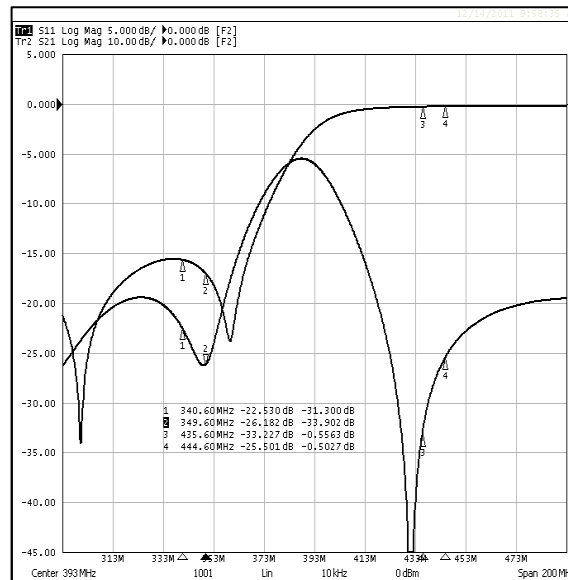
## 345.1MHz / 440.1 MHz


### Frequency Response

#### ■ Ant to Rx



#### ■ Tx to Ant



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