



Moisture Sensitivity Level – MSL 1

FEATURES:

- Low Insertion Loss 3.0dB typical
- Compact SMD package 5.0 x 5.0 x 1.35mm
- Suitable for RoHS compliant reflow

APPLICATIONS:

- Automotive Electronics/Remote Control

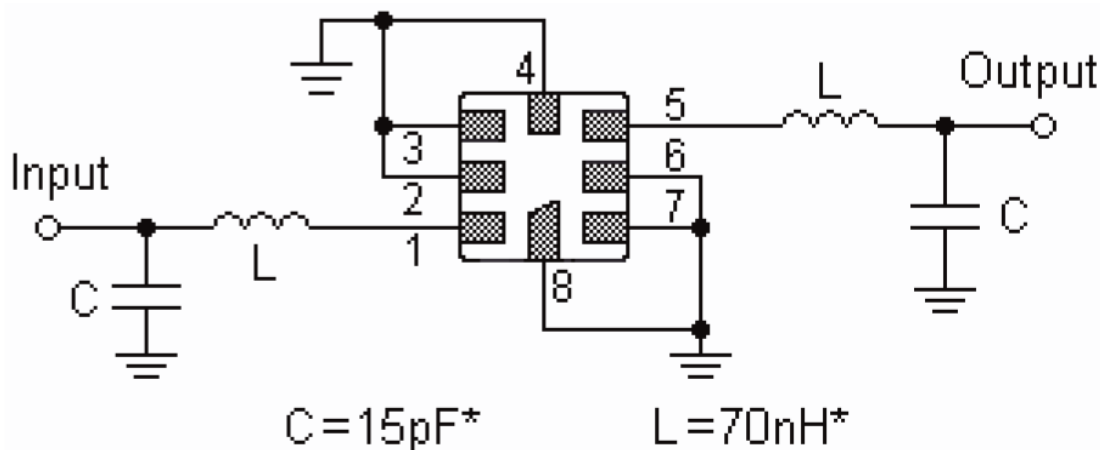
STANDARD SPECIFICATIONS:

Maximum Ratings

Item	Value
Operating Temperature Range	-10°C to + 60°C
Storage Temperature Range	-40°C to + 85°C
DC Voltage	12V
Input Power Level	10dBm

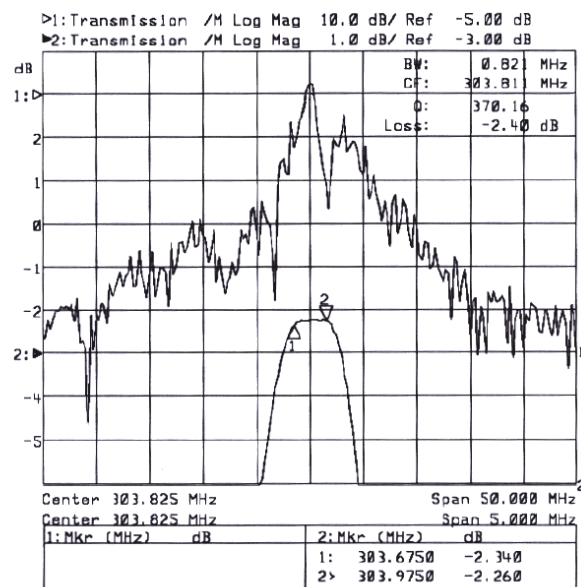
Parameters		Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)			303.825		MHz	
3dB Pass Band (BW_3)			600	900	kHz	
Insertion Loss (IL)			3.0	4.5	dB	
Rejection		40	50		dB	at 282.425 MHz (Image)
		20	30			at 293.125 (LO)
			60			Ultimate
Temperature	Turnover Temperature (T_o)	25		55	°C	
	Turnover Frequency (f_o)		303.825		MHz	
	Frequency Temperature Coefficient (FTC)		0.032		ppm/°C ²	
Frequency Aging fA			10		ppm/yr	Absolute value during the first year

TEST CIRCUIT:

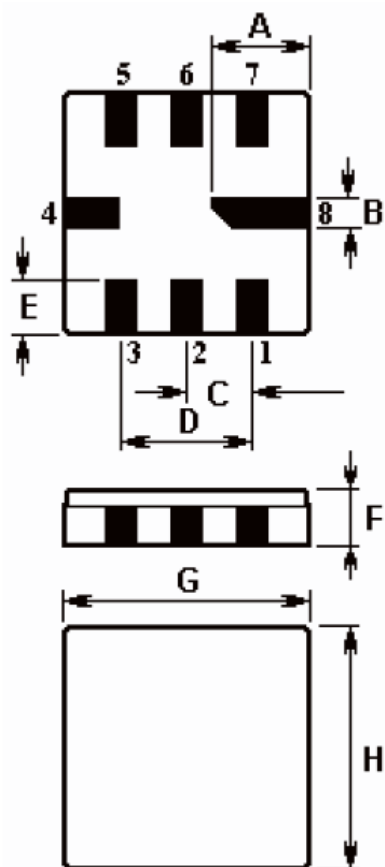




FREQUENCY CHARACTERISTICS



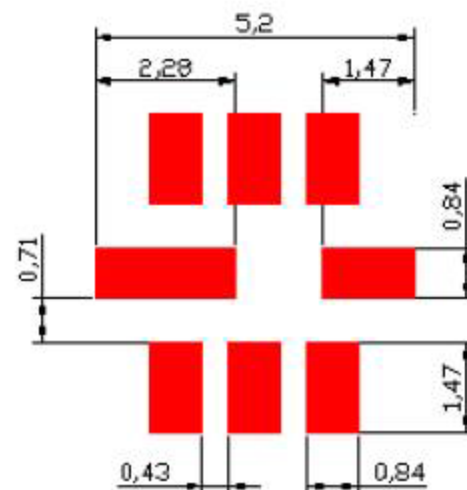
OUTLINE DIMENSION:



A	2.08
B	0.60
C	1.27
D	2.54
E	1.20
F	1.35
G	5.00
H	5.00

1	Input
2	Input Ground
5	Output
6	Output Ground
3, 7	to be Grounded
4, 8	Case Ground

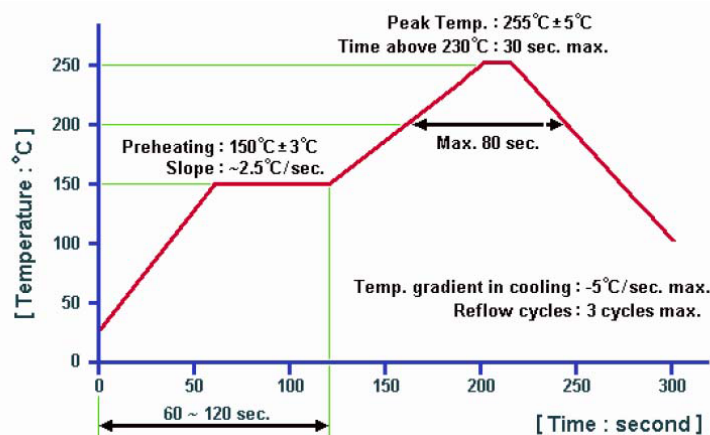
Recommended PCB Layout



Dimensions: mm



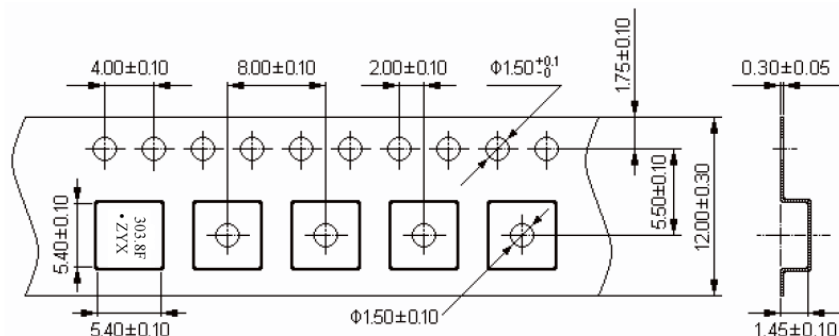
REFLOW PROFILE:



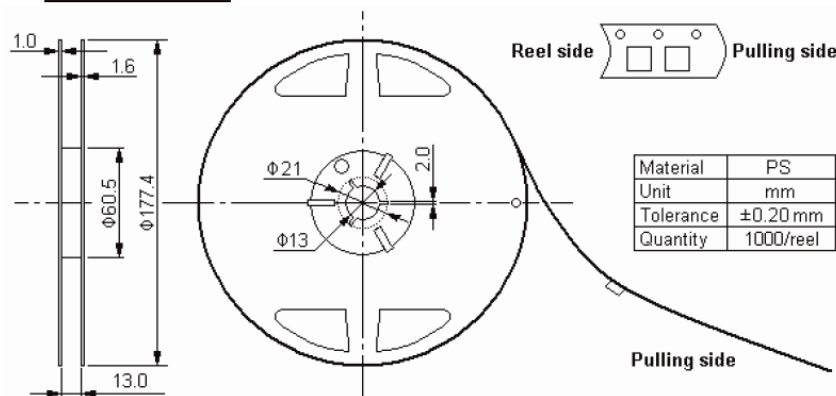
TAPE & REEL:

Packaging: 1,000pcs/reel

Carrier Tape



Reel Dimensions



Dimensions: mm

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