



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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5.0 x 5.0 x 1.35 mm

AFS303.825E

RoHS/RoHS II Compliant

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

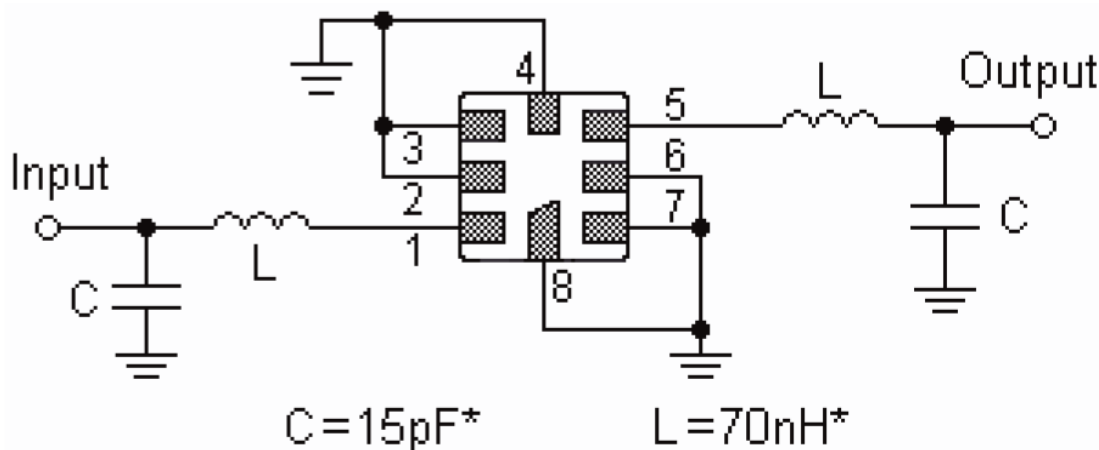
STANDARD SPECIFICATIONS:

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

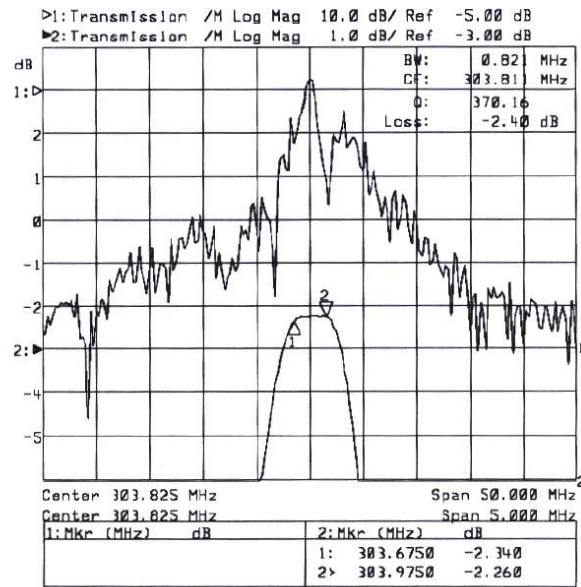
TEST CIRCUIT:



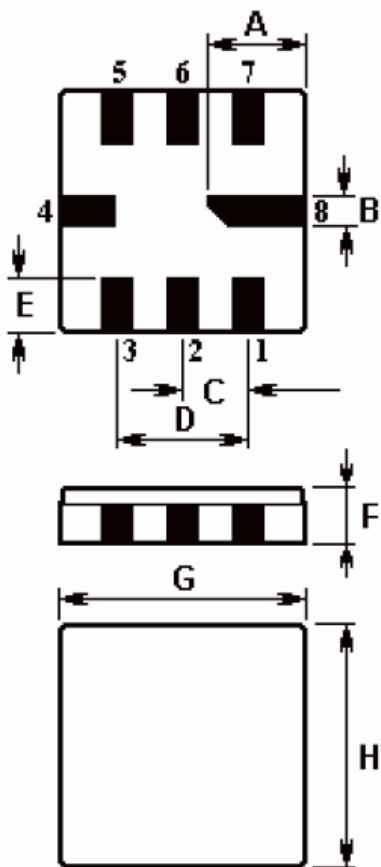


5.0 x 5.0 x 1.35 mm

FREQUENCY CHARACTERISTICS



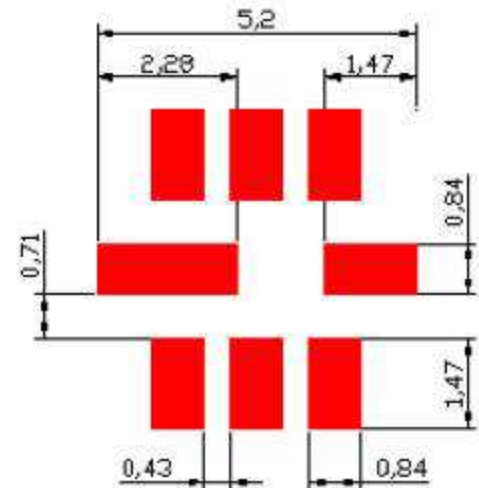
OUTLINE DIMENSION:



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

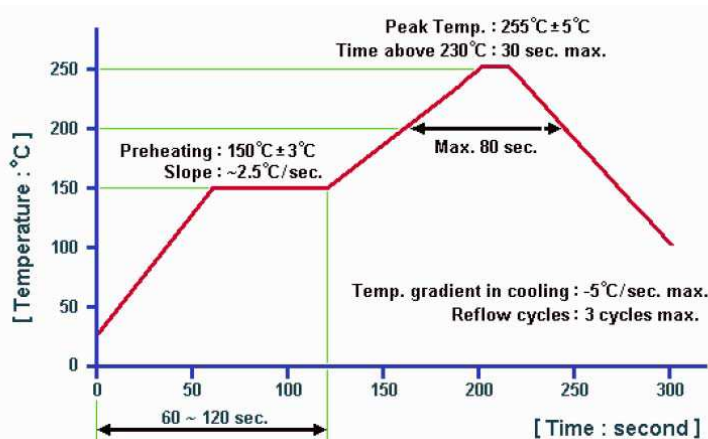


Dimensions: mm



5.0 x 5.0 x 1.35 mm

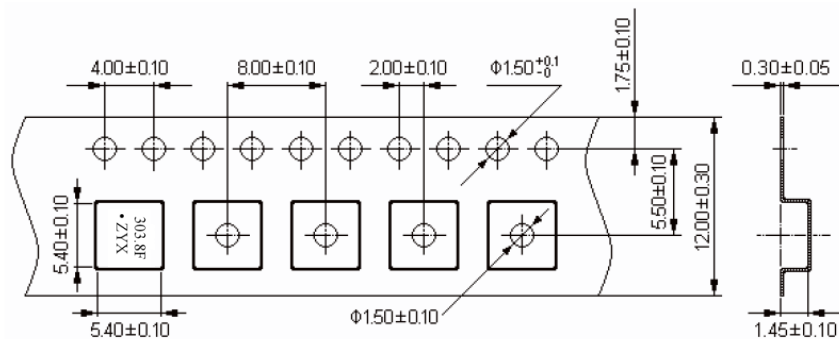
REFLOW PROFILE:



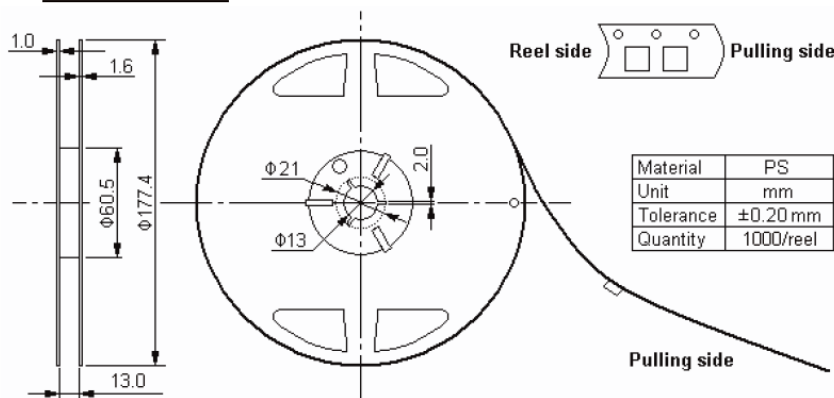
TAPE & REEL:

Packaging: 1,000pcs/reel

Carrier Tape



Reel Dimensions



Dimensions: mm

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