# AFS303.825E

# 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

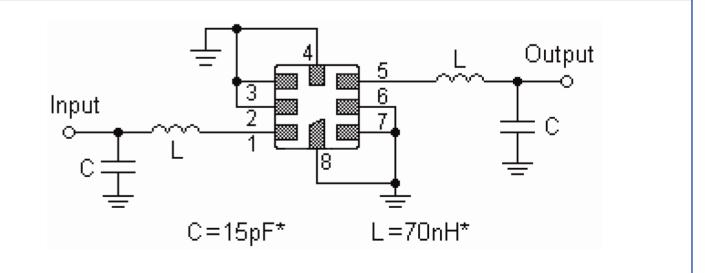
### **STANDARD SPECIFICATIONS:**

#### **Maximum Ratings**

Item	Value
Operating Temperature Range	$-10^{\circ}$ C to $+60^{\circ}$ C
Storage Temperature Range	$-40^{\circ}$ C to $+85^{\circ}$ C
DC Voltage	12V
Input Power Level	10dBm

]	Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequence	cy (f <sub>c</sub> )		303.825		MHz	
3dB Pass Band	(BW <sub>3</sub> )		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 <sub>o</sub> )	25		55	°C	
	Turnover Frequency (f <sub>o</sub> )		303.825		MHz	
	Frequency Temperature Coefficient (FTC)		0.032		ppm/°C <sup>2</sup>	
Frequency Agin	ng  fA		10		ppm/yr	Absolute value during the first year

#### **TEST CIRCUIT:**





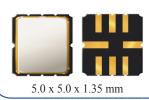


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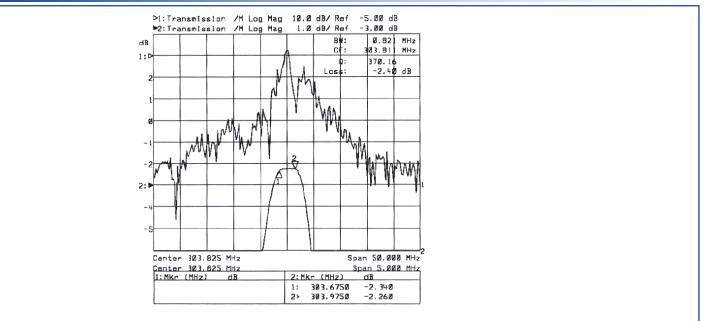
Automotive Electronics/Remote Control

► APPLICATIONS:



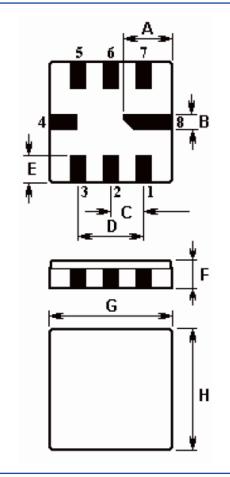
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#### **FREQUENCY CHARACTERISTICS**



(Pb) RoHS/RoHS II Compliant

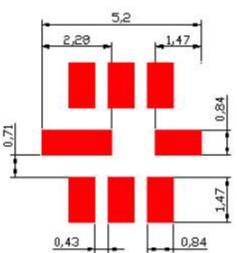
### **OUTLINE DIMENSION:**



Α	2.08
В	0.60
С	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	<b>Output Ground</b>
3, 7	to be Grounded
4,8	<b>Case Ground</b>
-, -	

**Recommended PCB Layout** 

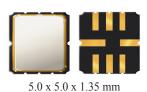


**Dimensions: mm** 



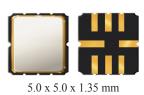


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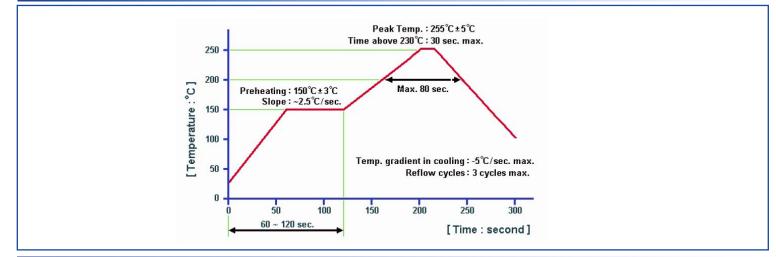


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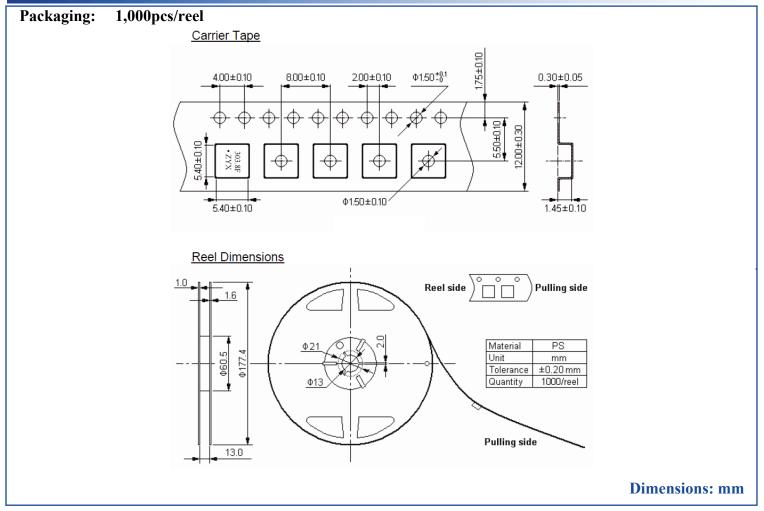




#### **REFLOW PROFILE:**



#### **TAPE & REEL:**



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