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

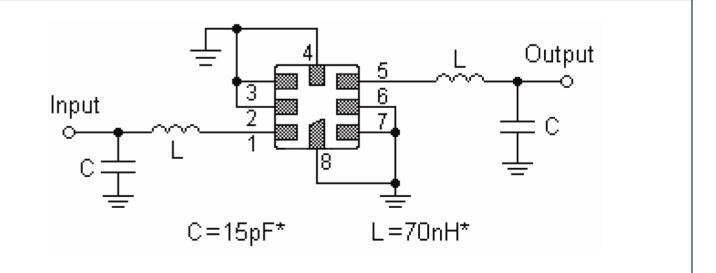
STANDARD SPECIFICATIONS:

Maximum Ratings

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

]	Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequence	cy (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 Agin	ng fA		10		ppm/yr	Absolute value during the first year

TEST CIRCUIT:





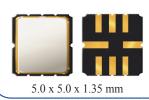


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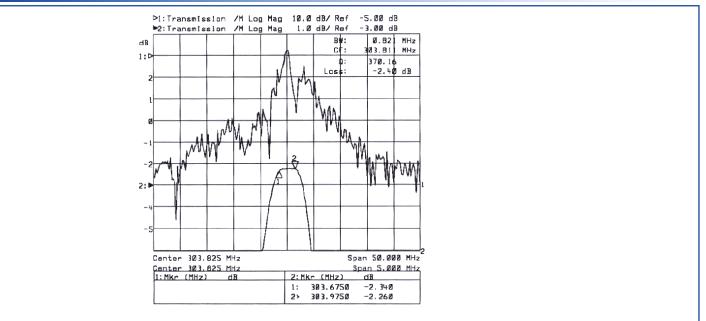
Automotive Electronics/Remote Control

► APPLICATIONS:



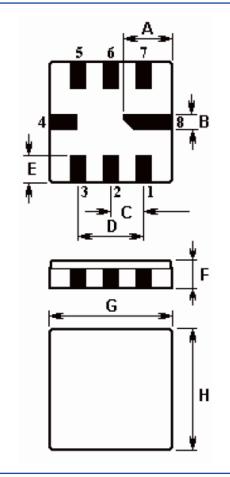
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FREQUENCY CHARACTERISTICS



(Pb) RoHS/RoHS II Compliant

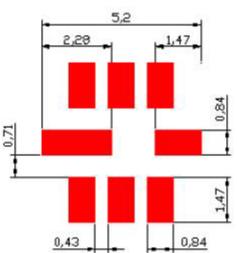
OUTLINE DIMENSION:



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	Output Ground
3, 7	to be Grounded
4,8	Case Ground
-, -	

Recommended PCB Layout

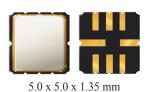


Dimensions: mm



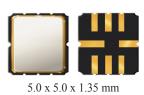


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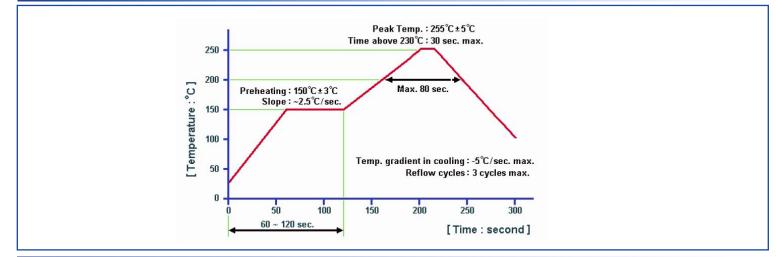


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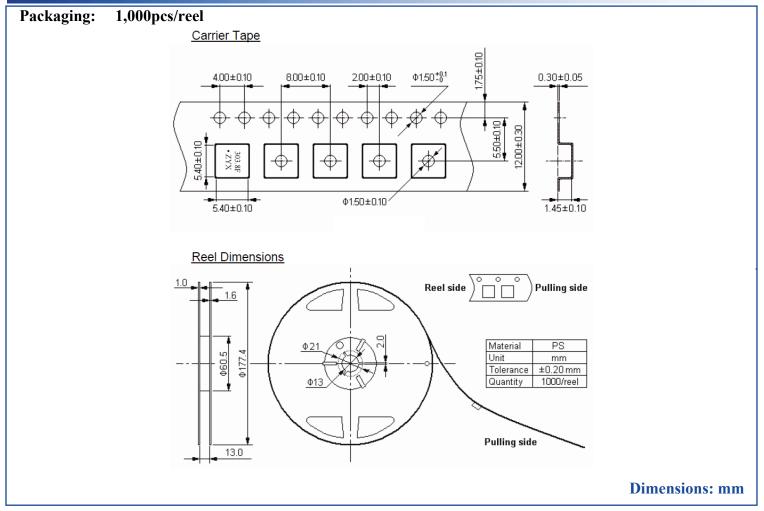




REFLOW PROFILE:



TAPE & REEL:



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