

Surface Mount 916.500MHz SAW FILTER

AFS916.5E



RoHS
Compliant



5.0 x 5.0 x 1.35 mm

FEATURES:

- Low Loss, Compact.
- Suitable for RoHS compliant reflow
- High selectivity 1200kHz 3dB pass band width

APPLICATIONS:

- Wireless car alarm, Garage door opener, RKE
- Mobile communications systems
- RF front-end filter circuitry

ELECTRICAL SPECIFICATIONS:

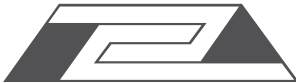
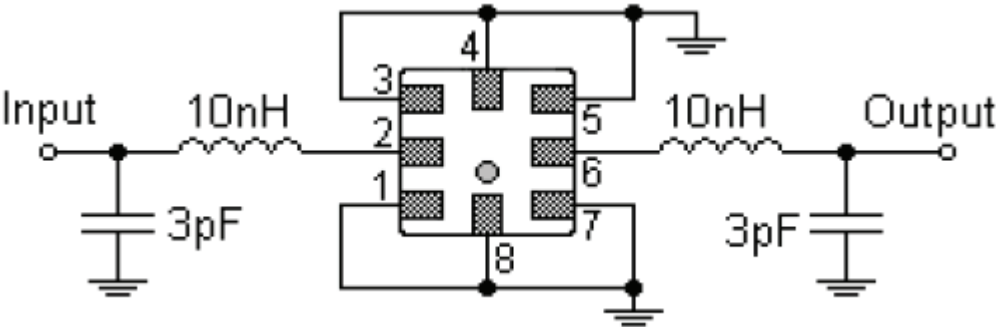
Maximum Ratings

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

Electrical Characteristics

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)	-----	916.500	-----	MHz	Center frequency between 3dB points
Insertion Loss (IL)	-----	4.0	5.5	dB	
3dB Pass Band	-----	1200	-----	kHz	
Rejection	30	42	-----	dB	at $f_c - 21.4\text{MHz}$ (Image)
	20	35	-----		at $f_c - 10.7\text{MHz}$ (LO)
	-----	60	-----		Ultimate
Turnover Temperature	25		55	°C	
Turnover Frequency		f_c		MHz	
Frequency Temperature Coefficient		0.032		ppm/°C ²	
Frequency Aging		10		ppm/yr	Absolute value during the first year

TEST CIRCUIT



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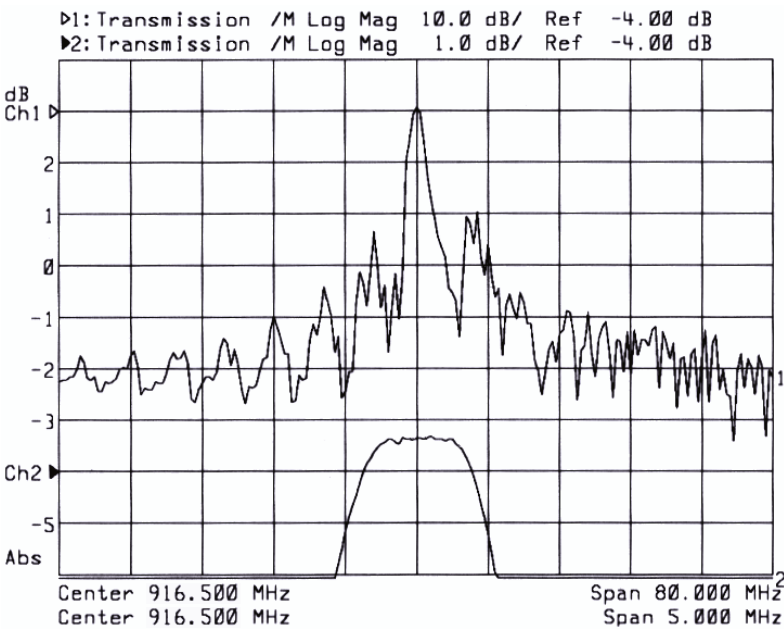


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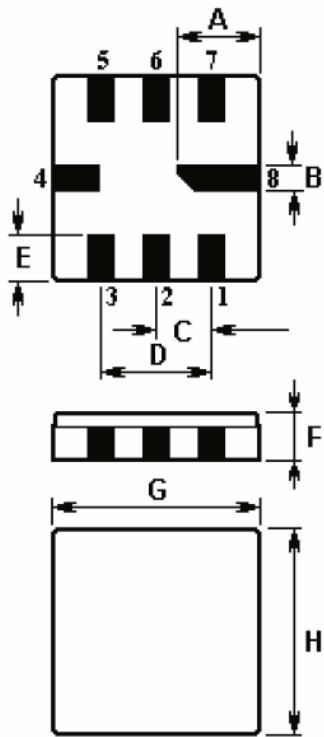


5.0 x 5.0 x 1.35 mm

FREQUENCY CHARACTERISTICS:



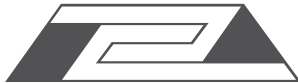
OUTLINE DRAWING:



Pin #	Function
1	Input GND
2	Input/Output
5	Output GND
6	Output/Input
3, 7	To be GND'ed
4, 8	Case GND

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

Dimensions: mm



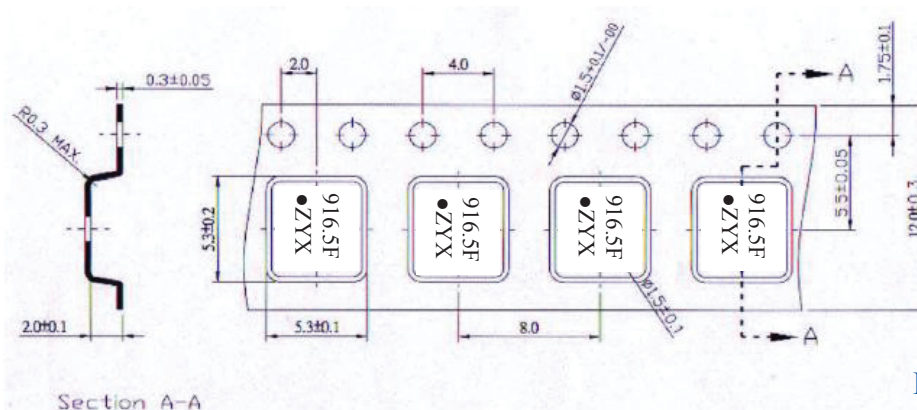
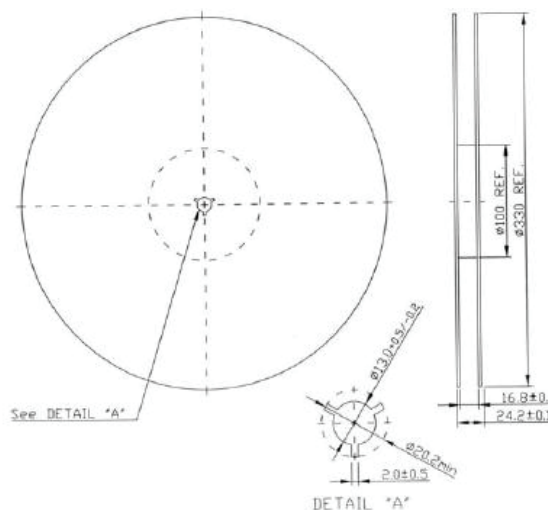
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Pb

Time (Sec)	Temp (Deg C)
0	25
20	25
40	145
60	145
80	155
100	155
120	165
140	175
160	185
180	215
200	255
220	265
240	245
260	175
280	145
300	145
320	130
340	115
360	105

3,000pcs/reel



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