

SMD 360.0MHz SAW FILTER

AFS360.0N01-SE



RoHS
Compliant



5.0 x 5.0 x 1.5mm

FEATURES:

- Low loss 6dB max
- 5.0 x 5.0 x 1.5mm seam sealed package
- Suitable for RoHS reflow profile

APPLICATIONS:

- Telecommunication

STANDARD SPECIFICATIONS:

ABSOLUTE MAXIMUM RATING

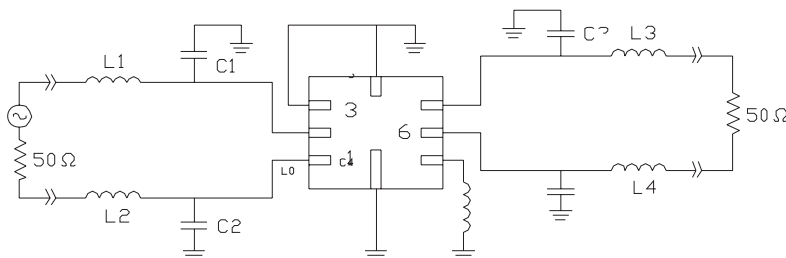
DC Permissive Voltage	10V DC max.
Operating Temperature Range	-30°C to +80°C
Storage Temperature Range	-45°C to +85°C
Source Power	0dBm

ELECTRICAL CHARACTERISTICS

Item	Units	Minimum	Typical	Maximum
Center Frequency (f_o)	MHz	--	360.0	--
Pass-band Width	KHz	--	315.0	--
Minimum Insertion Loss	dB	--	3.8	5.0
Ripple Deviation (Pass-band)				
$f_o \pm 67.7\text{KHz}$	dB	--	0.6	2.0
$f_o \pm 80.0\text{KHz}$	dB	--	0.9	3.0
Group Delay Ripple				
$f_o \pm 67.7\text{KHz}$	μsec	--	0.5	1.8
Stop Band Suppression				
$f_o - 30.0\text{MHz} \sim f_o - 5.0\text{MHz}$	dB	55.0	62.0	--
$f_o - 5.0\text{MHz} \sim f_o - 1.6\text{MHz}$	dB	52.0	54.0	--
$f_o - 1.6\text{MHz} \sim f_o - 800\text{KHz}$	dB	42.0	48.0	--
$f_o - 800\text{KHz} \sim f_o - 600\text{KHz}$	dB	38.0	48.0	--
$f_o - 600\text{KHz} \sim f_o - 400\text{KHz}$	dB	24.0	32.0	--
$f_o + 400\text{KHz} \sim f_o + 600\text{KHz}$	dB	24.0	32.0	--
$f_o + 600\text{KHz} \sim f_o + 800\text{KHz}$	dB	38.0	48.0	--
$f_o + 800\text{KHz} \sim f_o + 1.6\text{MHz}$	dB	42.0	48.0	--
$f_o + 1.6\text{MHz} \sim f_o + 5.0\text{MHz}$	dB	*52.0	54.0	--
$f_o + 5.0\text{MHz} \sim f_o + 30.0\text{MHz}$	dB	55.0	62.0	--
Impedance within the pass band				
Input: $Z_{IN} = R_{IN}/C_{IN}$	Ω/pF	--	340//1.9	--
Output: $Z_{OUT} = R_{OUT}/C_{OUT}$	Ω/pF	--	340//1.9	--
Temperature coefficient of frequency	Ppm/K^2	--	-0.036	--

*This value is not including the spurious response in the frequency range from 362.5MHz to 364.0MHz

TEST CIRCUIT:



$$L1 = L2 = L3 = L4 = 18\text{nH}$$

$$L0 = 68\text{nH}$$

$$C1 = C2 = C3 = C4 = 1.2\text{pF}$$



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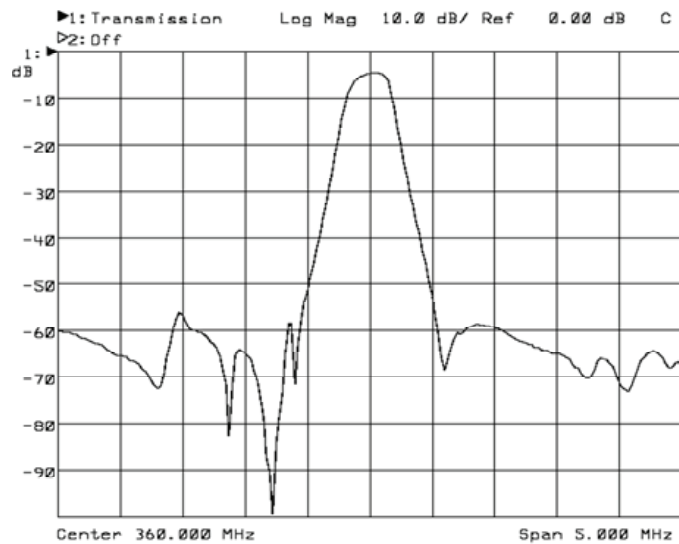


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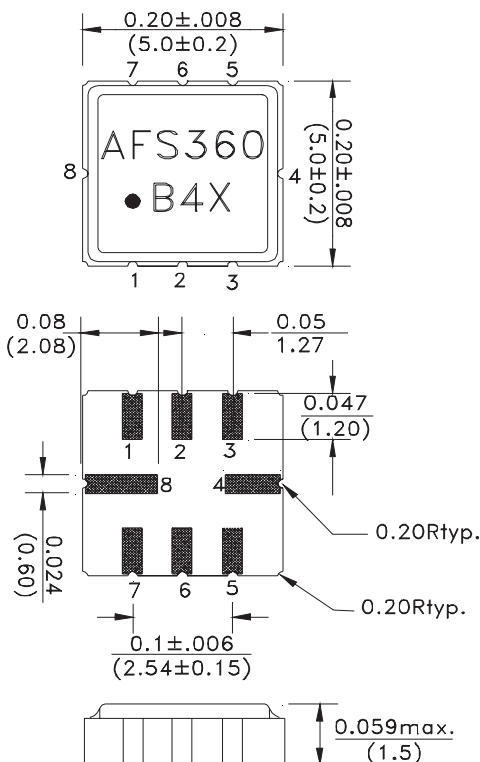


5.0 x 5.0 x 1.5mm

FREQUENCY CHARACTERISTICS:



OUTLINE DIMENSIONS:



B
Month code

4
Last figure of year

Month	1	2	3	4	5	6	7	8	9	10	11	12
Month code	A	B	C	D	E	F	G	H	I	J	K	L

e.g.: "B4" means February of 2004

X = Traceability Code

Pin No.	Function
1	Input Ground
2	Input
3	Ground
4	Case Ground
5	Output
6	Output Ground
7	Ground
8	Case Ground

Unit: inch (mm)



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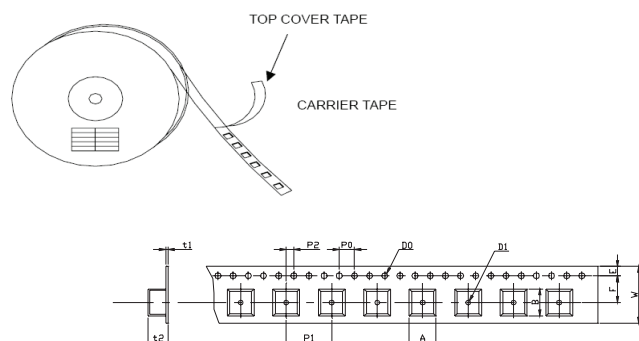
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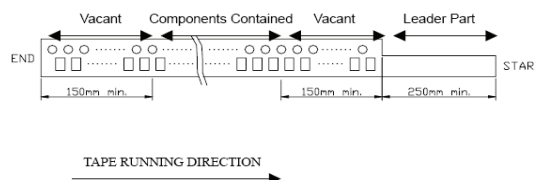
TAPE & REEL:

Taping Structure



W	F	E	P0	P1	P2	D0	D1	t1	t2	A	B
12.0	5.5	1.75	4.0	8.0	2.0	Φ 1.5	Φ 1.5	0.31	1.95	5.5	5.5
±0.3	±0.1	±0.1	±0.2	±0.1	±0.2	±0.1	±0.25	max.	max.	max.	max.

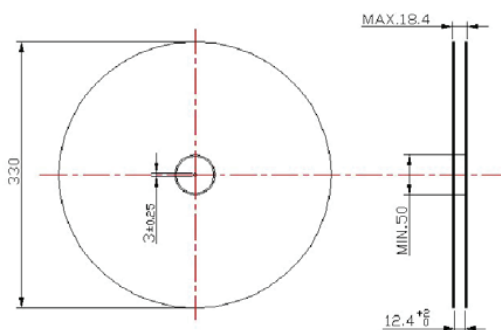
Leader part and vacant position specification



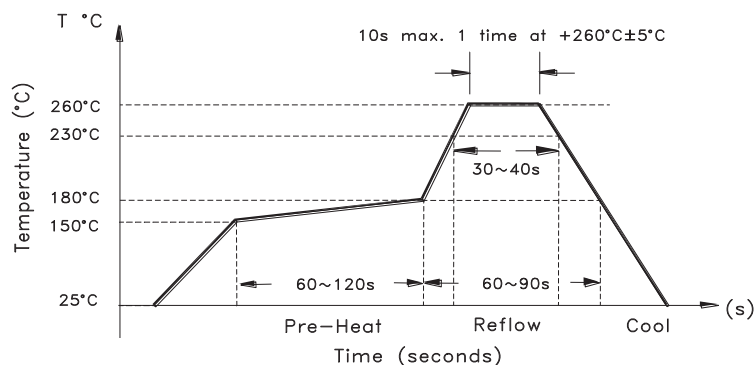
TAPE SPECIFICATIONS

- Tensile Strength of carrier tape: 4.4N/mm width.
- Top Cover Tape Adhesion
 - pull off angle: 0~15°
 - speed: 300mm/min.
 - force 20~70g

Device Name	
Type	
Quantity	
Lot No.	



REFLOW PROFILE:



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