

CMOS SMD VCXO



ASEV

3.2 x 2.5 x 0.9 mm

ASEV Series

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



RoHS
Compliant

FEATURES:

- Miniture ceramic package, Size: 3.2 x 2.5 x 0.9mm
- Low current consumption
- Wide pulling range
- CMOS output with Tri-state function
- Seam sealed package with high reliability
- IR Reflow capable
- Low supply voltage available

APPLICATIONS:

- Digital TV-tuner, Digital Video, DVD, DSC, etc.

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range:		1.5	-----	54	MHz	
Standard Frequency:		27, 32.768, 54			MHz	
Operating Temperature:		-10	-----	+70	°C	See options
Storage Temperature:		-40	-----	+85	°C	
Overall Frequency Stability:		-100	-----	+100	ppm	See options
Supply Voltage (Vdd):		3.135	3.3	3.465	V	See options
Control Voltage (Vc):		See Table 1				
Supply Current (I _{dd}):		See Table 1				
Output Load:		-----	-----	15	pF	CMOS
Output Voltage:	V _{OH}	0.9*Vdd	-----	-----	V	
	V _{OL}	-----	-----	0.1*Vdd	V	
Pullability:		See Table 1				
Aging:		-5.0	-----	+5.0	ppm	@+25°C First year
		-12.0	-----	+12.0		@+25°C After 10 years
Symmetry:		40	-----	60	%	@1/2Vdd
Rise/Fall Time (Tr/Tf):		-----	3.0	5.0	ns	
Phase Noise (reference only)*:		-----	-----	-125	dBC/Hz	@1kHz offset

*Note: Phase Noise is frequency dependent. e.g. for 12.288MHz, -125dBC/HZ max. @1kHz offset.

Table 1

Vdd (V)	Supply Current (mA) max.	Vc (V)	Pullability (ppm)
3.3 (STD)	13	+1.65±1.65	±100
2.8	9	+1.40±1.40	±90
2.5	7	+1.25±1.25	±80
1.8	3	+0.90±0.90	±80





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OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ASEV - MHz - - -

Supply Voltage
Blank: 3.3V
2: 2.8V
3: 1.8V
4: 2.5V

Frequency in MHz
Please specify the frequency in MHz. e.g. 32.768MHz

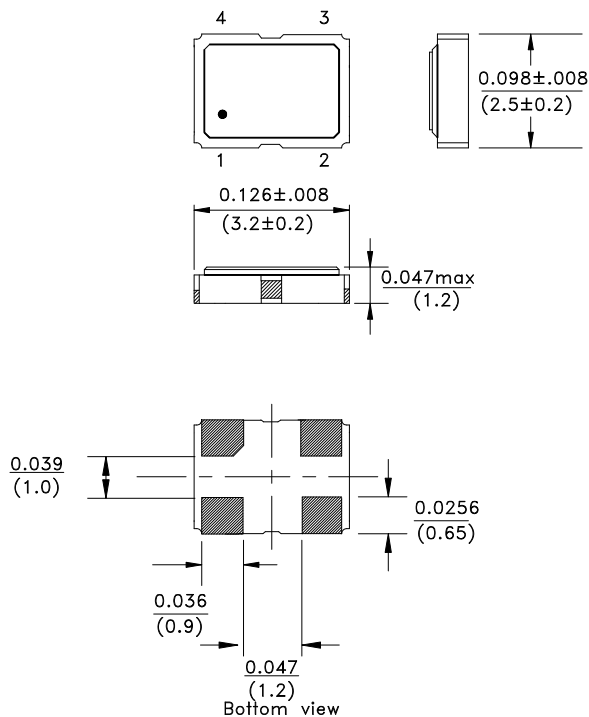
Operating Temp.
Blank: -10°C ~ +70°C
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Overall Freq. Stability
Blank: ±100 ppm
J: ±20 ppm*
R: ±25 ppm
K: ±30 ppm
H: ±35 ppm
B: ±40 ppm
C: ±50 ppm

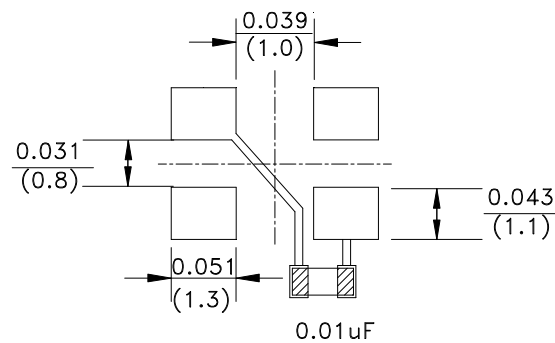
Packaging
Blank: Bulk
T: Tape & Reel

* Temp options I, D, E and -10°C ~ +70°C

OUTLINE DRAWING:



Recommended land pattern



Note: Recommend using an approximately 0.01uF bypass capacitor between pin 2 and 4.

PIN #	Name
1	Vc
2	GND/Case
3	Output
4	Vdd

Dimensions: inches (mm)



ASEV

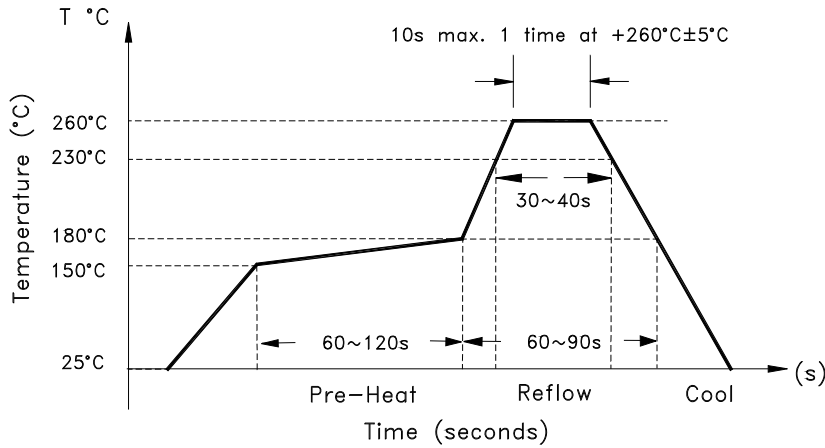
3.2 x 2.5 x 0.9 mm

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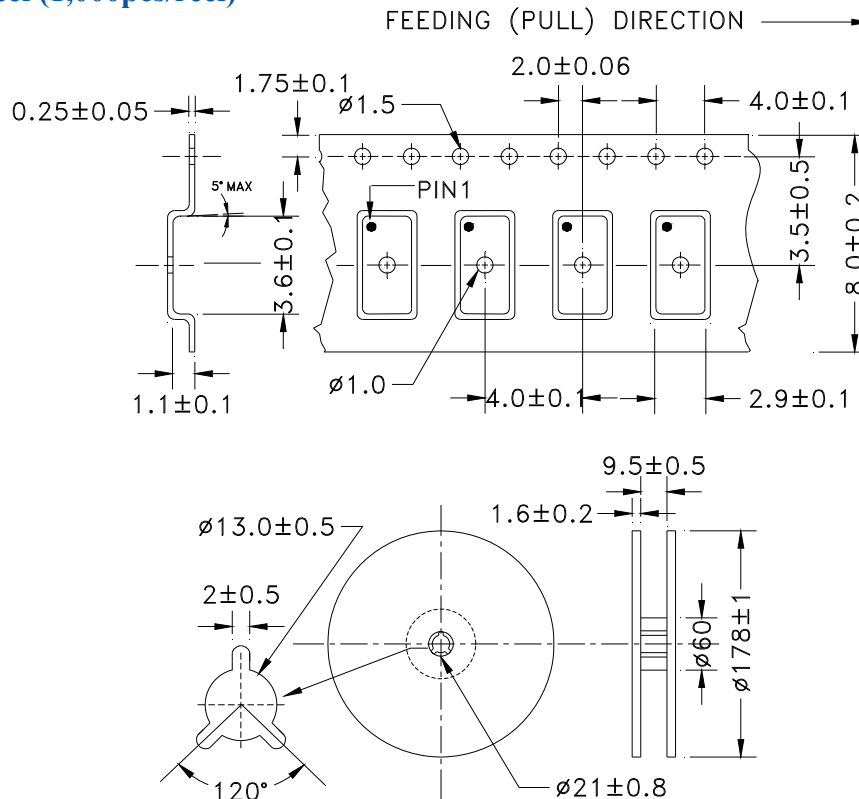
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REFLOW PROFILE:



TAPE & REEL:

T= Tape and reel (1,000pcs/reel)



Dimensions: mm

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