3.3Vdc CMOS SMD CRYSTAL CLOCK OSCILLATOR

ASE SERIES

Moisture Sensitivity Level (MSL) -1





FEATURES:

- Low height 1.0mm max
- Tri-state function
- Low current consumption 20mA max for 200MHz
- Low RMS jitter 5ps max
- Suitable for RoHS reflow
- Available for tight stability option

> **APPLICATIONS**:

- CCD clo ck for VTR came ra
- Equipment connected to PC or PC cards
- PDA, wireless communication.
- Laptop, SSD (Solid State Drive)

► STANDARD SPECIFICATIONS:

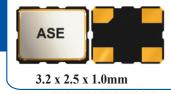
Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	0.625		200	MHz	
Operating Temperature	-10		+70	°C	STD (See options)
Storage Temperature	-55		+125	°C	
Overall Frequency Stability	-100		+100	ppm	See options
Supply Voltage (Vdd)	+3.135	3.3	+3.465	V	•
Supply Current (Idd)		2.5	7	mA	$0.5 \sim 20 \text{ MHz}$
		4.4	13		20.1 ~ 40.0 MHz
		6.5	19		40.01 ~ 60.0 MHz
		12.7	24		60.01 ~ 75.0 MHz
		7.4	20		75.01 ~ 80.0 MHz
		7.4	25		80.01 ~ 133.0MHz
		11.7	30		133.01 ~ 200.0 MHz
Symmetry @ 1/2Vdd	45	50	55	%	0.5 ~ 80.0MHz
	40	50	60		80.01 ~ 200.0MHz
Rise and Fall Time (Tr/Tf)		2.5	4.0	ns	0.5 ~ 20 MHz
		2.4	4.0		20.1 ~ 40.0 MHz
		2.4	4.0		40.01 ~ 60.0 MHz
		2.3	4.0		60.01 ~ 75.0 MHz
		1.5	4.0		75.01 ~ 133.0 MHz
		1.9	4.0		133.01 ~ 200.0 MHz
Output Load			15	pF	CMOS
Output Voltage (VOH)	0.9* Vdd			V	
Output Voltage (VOL)			0.1* Vdd	V	
Start-up Time		1	2.0	ms	0.5 ~ 20 MHz
		1	2.0		20.1 ~ 40.0 MHz
		1	2.0		40.01 ~ 60.0 MHz
		1	2.0		60.01 ~ 75.0 MHz
		1.2	2.0		75.01 ~ 133.0 MHz
		1.5	2.0		133.01 ~ 200.0 MHz
Time to the Company (Change 11)	"1" (VIH≥0.7*Vdd) or Open: Oscillation;				
Tri-state function (Stand-by)		3*Vdd) : No osc			
Peak to Peak Jitter		20		ps	Reference only.
		28			Contact ABRACON for the Jitter
RMS Jitter:		3.2	5		$0.5 \sim 20 \text{ MHz}$
		3.2	5	ps	20.1 ~ 40.0 MHz
					$40.01 \sim 60.0 \text{ MHz}$
		3.2	5		$60.01 \sim 75.0 \text{ MHz}$
		3.2	5		$75.01 \sim 133.0 \text{ MHz}$
		2.2	5		
A : 4050G (G + 1		2.2	5	<u> </u>	133.01 ~ 200.0 MHz
Aging at 25°C (first year)	-3		+3	ppm	
Stand-by Current:			10	μA	



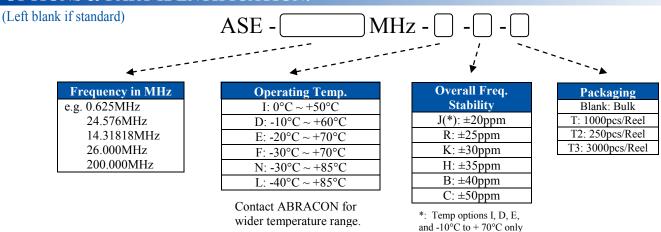
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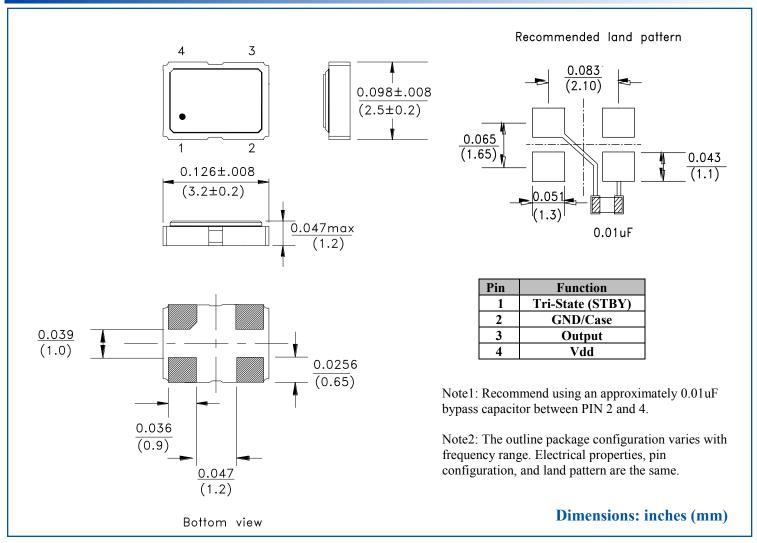




> OPTIONS & PART IDENTIFICATION:



OUTLINE DIMENSIONS:

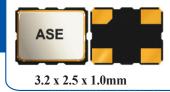




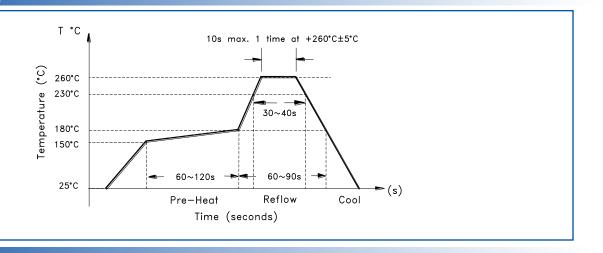
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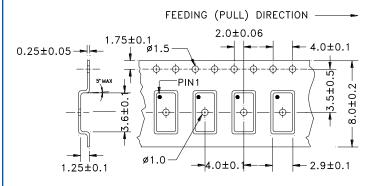
REFLOW PROFILE:

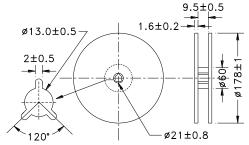


TAPE & REEL:

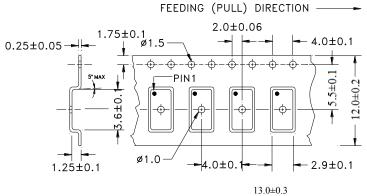
T: 1000pcs/reel T2: 250pcs/reel T3: 3000pcs/reel

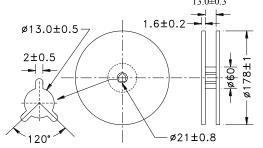
8mm Tape Width





12mm Tape Width





Dimensions: mm



Need a test socket for the ASE Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.**

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