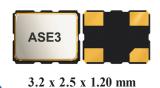
1.8V CMOS Compatible SMD Crystal Oscillator

ASE3 SERIES

RoHS/RoHS II compliant



Moisture Sensitivity Level (MSL) -1

> FEATURES:

- Compact and low in height
- Tri state
- Low supply voltage
- Suita ble for high density SMT
- IR reflow capable
- Tight stability option available
- Seam sealed package

> APPLICATIONS:

- CCD clock for VTR camera
- Equipment connected to PC or PC cards
- Laptop

- Mobile communication
- Bluetooth
- Wireless LAN
- Flat TV

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	0.625		133.333	MHz	
Operating Temperature:	-10		+70	°C	See options
Storage Temperature:	-55		+125	°C	
Overall Frequency Stability:	-100		+100	ppm	See options
Supply Voltage (Vdd):	+1.71	+1.80	+1.89	V	
Supply Current (Idd):		1	4	mA	0.625~9.999MHz
		2	4	mA	10.000~29.999MHz
		3	6	mA	30.000~59.999MHz
		5	10	mA	60.000~74.999MHz
		7	15	mA	75.000~99.999MHz
		12	20	mA	100.000~133.333MHz
Start-up time:		3	5	ms	0.625~9.999MHz
		3	5	ms	10.000~29.999MHz
		3	5	ms	30.000~59.999MHz
		4	10	ms	60.000~74.999MHz
		4	10	ms	75.000~99.999MHz
		4	10	ms	100.000~133.333MHz
Tr/Tf:		5	10	ns	0.625~9.999MHz
		3	6	ns	10.000~29.999MHz
		3	6	ns	30.000~59.999MHz
		2	5	ns	60.000~74.999MHz
		2	5	ns	75.000~99.999MHz
		2	5	ns	100.000~133.333MHz
Symmetry @ 1/2Vdd:	45		55	%	0.625 ~ 89.999 MHz
	40		60		90 ~ 133.333MHz
Tristate function:	"1" (VIH \geq 0.7*Vdd) or open: Oscillation				
	"0" (VIL < 0.3*Vdd) : Hi Z				
Output Load:		,	15	pF	
Output Level	0.9 * Vdd			Vp-p	$ m V_{OH}$
			0.1 * Vdd	Vp-p	$V_{ m OL}$
Stand-by Current:			10	uA	
Period Jitter (RMS):		3	5	ps	
Aging (first year):	-3		+3	ppm	@+25°C



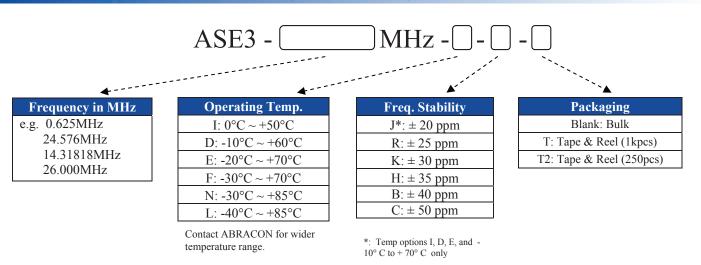
1.8V CMOS Compatible SMD Crystal Oscillator

ASE3 SERIES

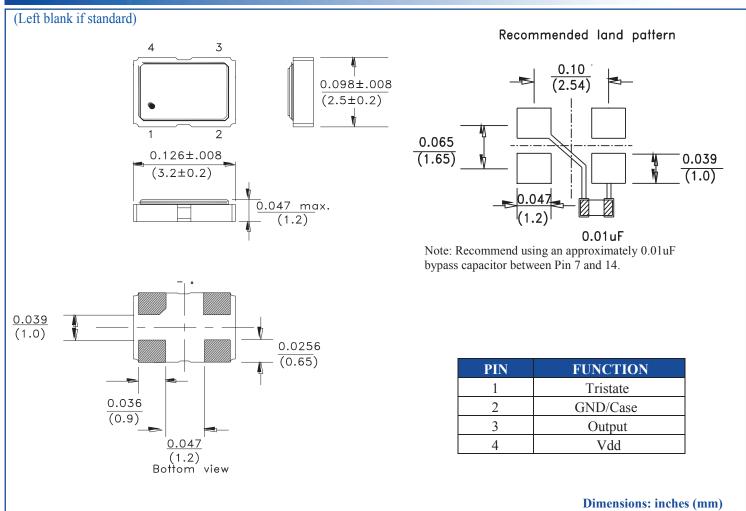




OPTIONS & PART IDENTIFICATION: (Left blank if standard)



OPTIONS & PART IDENTIFICATION:







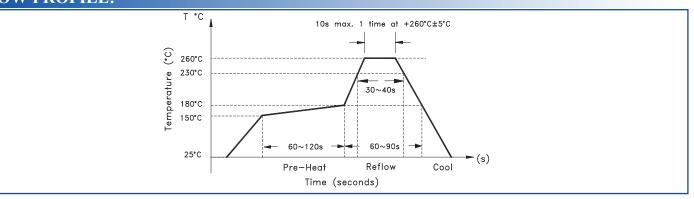
1.8V CMOS Compatible SMD Crystal Oscillator

ASE3 SERIES





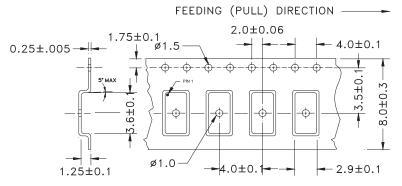
REFLOW PROFILE:

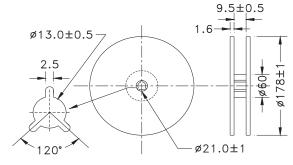


TAPE & REEL:

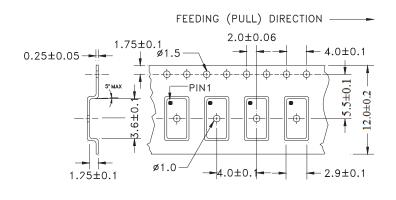
T: Tape and reel (1,000pcs/reel)
T2: Tape and reel (250pcs/reel)

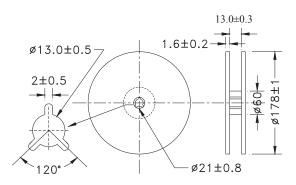
8mm Tape Width





12mm Tape Width





Dimensions: mm



Need a test socket for the ASE3 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.**

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