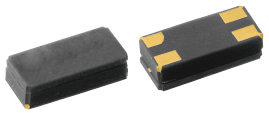
32.768kHz LOW POWER SMD CRYTAL OSCILLATOR



3.2 x 1.5 x 1.0mm

ASH7KW

ESD Sensitive

RoHS/RoHS II Compliant

Moisture Sensitivity Level (MSL) – Level 1

FEATURES:

- Ultra-miniature size 3.2x1.5x1.0mm [max.]
- Low Voltage Operation (Min:1.2V)
- Low Current Consumption
- Operating temperature : -40 to +85 °C; -40 to +125 °C
- VDD controls the output amplitude

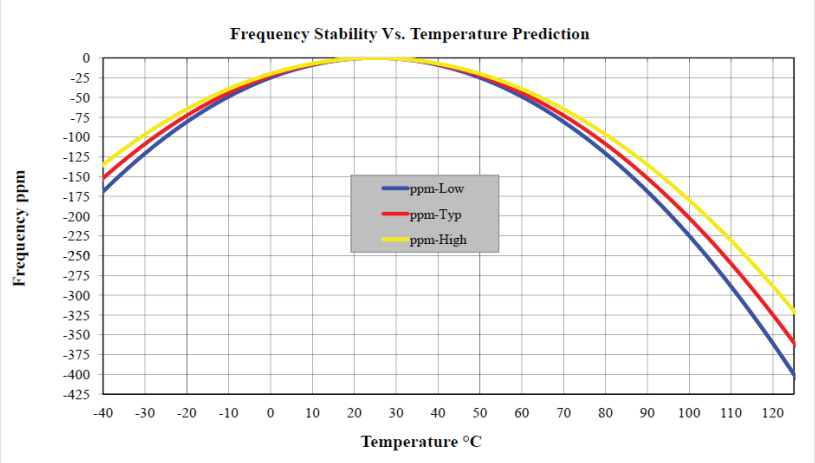
APPLICATIONS:

- Factory Automation
- PC Sever
- W-LAN/GPS Chipset
- General purpose clock generator for digital systems
- Clock drivers for Real Time Clocks
- Timekeeping in network servers and computers
- Electricity, gas and water metering
- Portable field communication
- Mobile phone
- Clock & Data recovery
- CCD clock for VTR camera
- Computers and peripherals
- Portable MP3 players & games

STANDARD SPECIFICATIONS

Parameters		Minimum	Typical	Maximum	Units	Notes
Output Frequency			32.768		kHz	
Operating Temperature		-40		+85	°C	Option "L"
		-40		+125		Option "H"
Storage Temperature		-55		+125	°C	
Turnover Temperature		+20	+25	+30	°C	
Frequency Tolerance		-20		+20	ppm	
Temperature Coefficient			-0.035±10%		ppm/C²	
Supply Voltage Range (V_{dd})		1.2		5.5	V	
Current Consumption			0.3	0.5	µA	V_{dd}=3.0V, $\overline{OE}$ (output disabled)
Current Consumption			1.8		µA	Load=15pF, V_{dd}=3.0V, OE
Output Load (CMOS)				15	pF	
Output Voltage	V_{OH}	V_{dd} -0.4			V	I_{OH} = -1mA
	V_{OL}			GND+0.4		I_{OL} = 1mA
CLKOE Pin Function		"1" (VIH≥0.8*Vdd) or Open: Oscillation "0" (VIL<0.2*Vdd) : Output disabled				
Aging@+25		-3.0		+3.0	ppm	First year
Duty Cycle		40		60	%	
Voltage Coefficient		-1.5		+1.5	ppm/V	
Start-up Time				0.5	s	
Output Rise Time				70.0	ns	Load=10pF, 10% to 90%
Output Fall Time				70.0	ns	Load=10pF, 10% to 90%

TYPICAL FREQUENCY TEMPERATURE CHARACTERISTICS:



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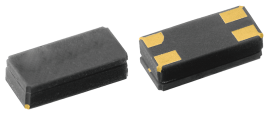


3.2 x 1.5 x 1.0mm

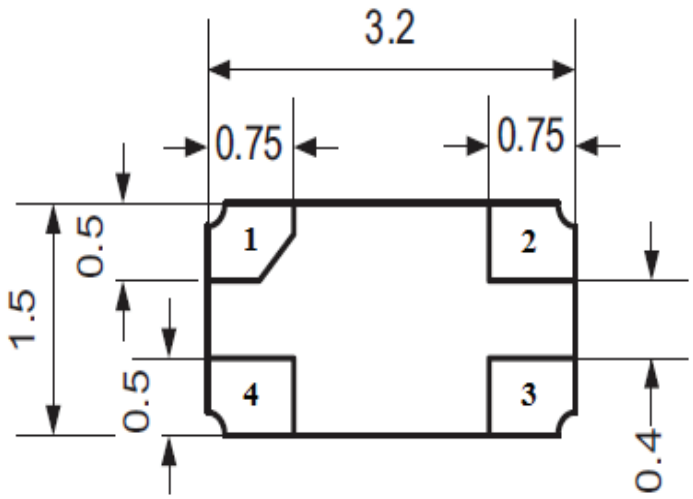
PART IDENTIFICATIONS:

ASH7KW-32.768kHz-□-□

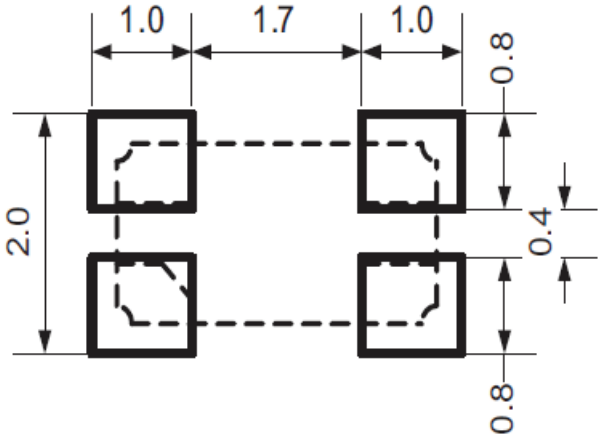
Operating Temp.
L: -40°C ~ +85°C
H: -40°C ~ +125°C

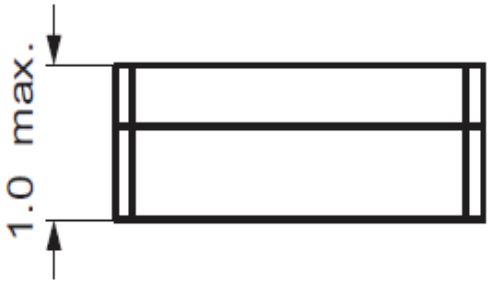
Packaging
Blank: Bulk
T: 1000pcs/Reel
T3: 3000pcs/Reel

OUTLINE DIMENSIONS:



Recommended Land Pattern





Pin No.	Function
1	Output
2	GND
3	OE
4	Vdd

Note: Due to material availability, the component cover may vary (ceramic or metal). This variation in no way affects the electrical performance of the product.

Dimensions: mm

All Dimensions are typical values.

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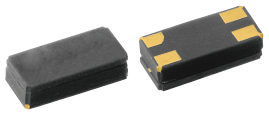

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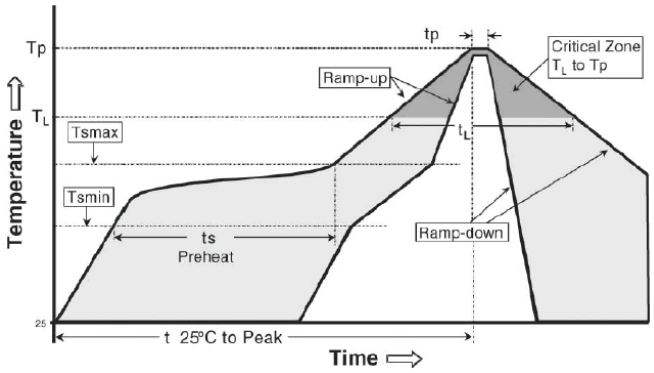
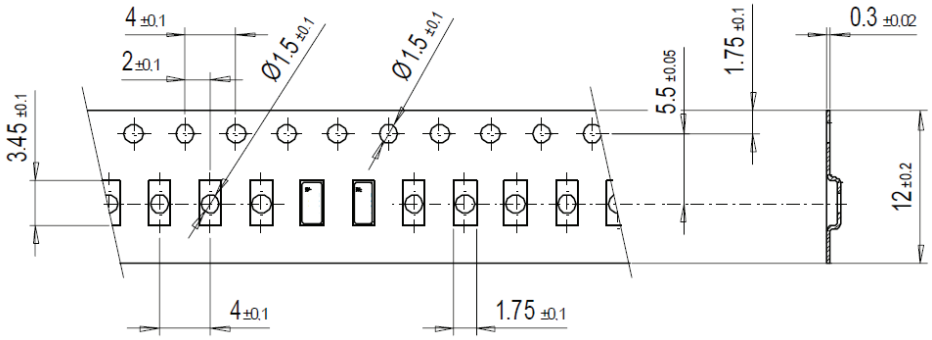
REFLOW PROFILE:

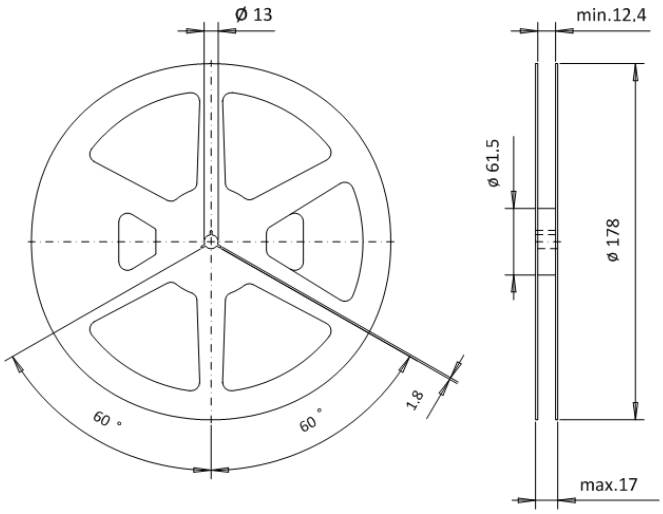


Temperature Range	Symbol	Condition	Unit
Average Ramp up Rate	(Ts_{max} to Tp)	3℃/second max	℃/s
Ramp Down Rate	T_{cool}	6℃/second max	℃/s
Time 25℃ at Peak Temperature	$T_{to\text{-}peak}$	8 minutes max	m
Preheat			
Temperature Min	Ts_{min}	150	℃
Temperature Max.	Ts_{max}	200	℃
Time Ts_{min} to Ts_{max}	Ts	60-180	Sec
Soldering above Liquidus			
Temperature Liquidus	T_L	217	℃
Time above Liquidus	t_L	60-150	Sec
Peak Temperature			
Peak Temperature	Tp	260	℃
Time within 5℃ of Peak Temperature	tp	20-40	Sec

TAPE & REEL:

T= Tape and reel (1,000pcs/reel)
T3= Tape and reel (3,000pcs/reel)





Dimensions: mm

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