5Vdc or 3.3Vdc • MINIATURE CERAMIC SURFACE MOUNT • HCMOS OR TTL

PROGRAMMABLE CLOCK OSCILLATORS

ASLP and ASVP

7.0 x 5.0 x 1.6 mm

FEATURES:

- Wide range of frequency up to 125MHz using PLL technology.
- Quick delivery within one to five days for small quantities.
- Ultra miniature low profile SMD package.
- Reflow soldering.
- Tristate E/D or Stand-By function.
- Hermetically seam welded.

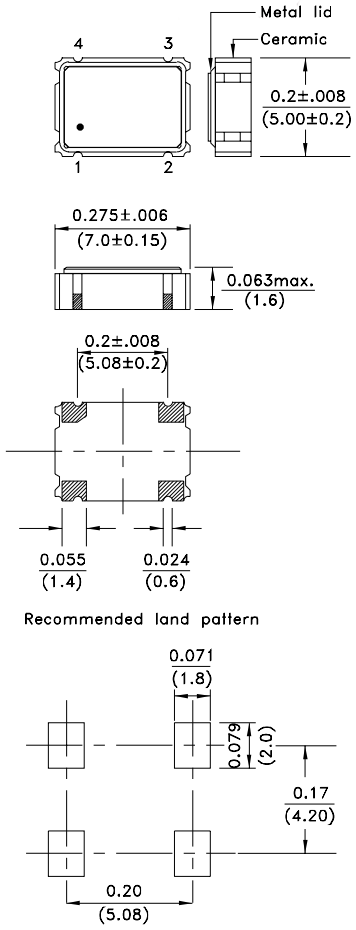
1 to 5 Day Lead Time

APPLICATIONS:

- Clocks for a wide range of applications.

STANDARD SPECIFICATIONS

PARAMETERS	ASLP	ASLPT	ASVP
Frequency Range (F_o)	1.00MHz - 125MHz		1.00MHz - 106.25MHz
Operating Temperature (T_{OPR})	-20°C to +70°C (See Options)		
Storage Temperature (T_{STO})	-55°C to +125°C		
Frequency Stability ($\Delta F/F_o$)	±50ppm max. (See Options)		
Supply Voltage (V_{dd})	5.0Vdc ±10%		3.3Vdc ±10%
Input Current (I_{dd})	45mA max.		25mA max.
Duty Cycle or Symmetry	45/55% max.at 1/2 VDD	45/55% max.at 1.4 VDC	45/55% max.at 1/2 VDD
Rise and Fall Times (T_R / T_F)	4ns max.		
Output Load	25pF max.	5TTL	15pF max.
Output Voltage (V_{OH}) (V_{OL})	0.9 *Vdd min. 0.4V max.	2.4V min. 0.4V max.	0.7 *Vdd min. 0.2 *Vdd max.
Start-up Time (T_{OSC})	10ms max.		
Tristate (OE) Function	V_{IH}: 2.0V min. Oscillation V_{IL}: 0.8V max. Hi Impedance		V_{IH}: 0.7*VDDmin. V_{IH}: 0.2*VDDmax.
Disable current OE (I_{DIS})	30mA max.		15mA max.
Stand - By current (option B)(I_{STB})	50µA max.		20µA max.
Jitter Peak to peak	±250ps max. for F≤ 40MHz, ±90ps typ. ±100ps max. for F> 40MHz, ±50ps typ.		±250ps max. for F≤ 40MHz, ±90ps typ. ±100ps max. for F> 40MHz, ±50ps typ.
RMS One sigma	±50ps max. for F≤ 40MHz, ±25ps typ. ±30ps max. for F> 40MHz, ±15ps typ.		±50ps max. for F≤ 40MHz, ±25ps typ. ±40ps max. for F>40MHz, ±20ps typ.



Dimensions: Inches (mm)

* Pin 1 has internal pull-up resistor which allow Pin 1 to be left floating (enable high).
Connect a By-Pass capacitor 0.01 µF between Vdd and GND.
Environmental and mechanical specifications see appendix C. Group 2.
Test circuit, waveforms,see appendix B. Reflow profile, see appendix E.
Tape and Reel, see appendix H.(1,000 pcs./reel).

Pin	Function
1	OE or PD
2	GND
3	Output
4	Vdd

ORDERING OPTIONS

ASXPX - Frequency - Temperature - Overall Frequency Stability - Stand By - Packaging

- ASXPX: L or V; T or Blank
- Frequency: XXX.XXX MHz
- Temperature: -F for -30°C to +70°C; -N for -30°C to +85°C; -L for -40°C to +85°C
- Overall Frequency Stability: -J for ± 20pmm max.*; -R for ± 25pmm max.*; -K for ± 30pmm max.; -H for ± 35pmm max.
- Stand By: -B
- Packaging: T for Tape and Reel

** Standard temperature only. Please call us for other tighter spec.*

MARKING w/o OPTIONS:

- ALPX (X.XX frequency)
- 042104 (Six digit lot and blank date code, Ex: ALP80.0, ALP4.00)

MARKING w/ OPTIONS:

- AX.XXRB or LB (X.XX frequency)
- 042104 (R for stability. or L temp. & B for stand-by Six digit lot and blank date code, Ex: A125LB, A66.6B, A27.0R)

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