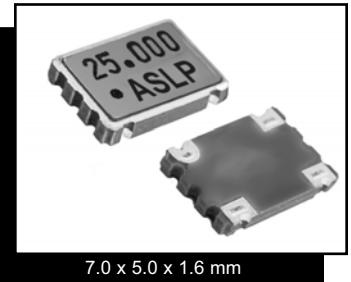


5Vdc or 3.3Vdc • MINIATURE CERAMIC SURFACE MOUNT • HCMOS OR TTL

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 ₀)	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 (ΔF/F ₀)	±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})	0.9 *V _{dd} min.	2.4V min.	0.7 *V _{dd} min.
(V _{OL})	0.4V max.	0.4V max.	0.2 *V _{dd} 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*V _{DD} min. V _{IH} : 0.2*V _{DD} max.
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.

* Pin 1 has internal pull-up resistor which allow Pin 1 to be left floating (enable high).

Connect a By-Pass capacitor 0.01 μ F between V_{dd} 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).

ORDERING OPTIONS

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

L or V

XXX.XXX MHz

-F for -30°C to +70°C
-N for -30°C to +85°C
-L for -40°C to +85°C

-J for ± 20ppm max.*
-R for ± 25ppm max.*
-K for ± 30ppm max.
-H for ± 35ppm max.

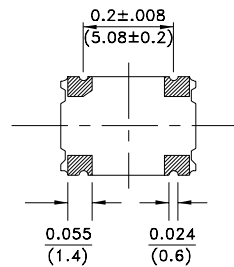
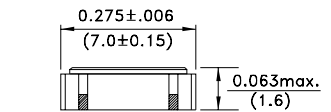
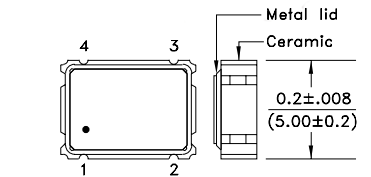
-B

T for Tape and Reel

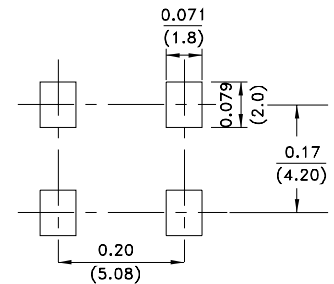
T or Blank

Pin	Function
1	OE or PD
2	GND
3	Output
4	V _{dd}

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



Recommended land pattern



Dimensions: Inches (mm)

MARKING w/o OPTIONS:

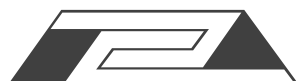
- ALPX (X.XX frequency)
- 042104 (Six digit lot and blank date code,
Ex: ALP80.0, ALP4.00)

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)

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

rev.2.1-4/06



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