



5.0 x 3.2 x 1.6 mm

1.8 Vdc • LVHCMOS CERAMIC SURFACE MOUNT CRYSTAL CLOCK OSCILLATORS ASFL3

FEATURES:

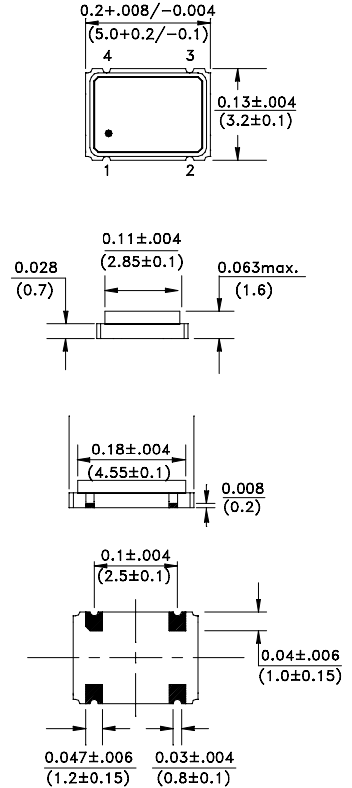
- Compact and low in height.(1.6 mm max.)
- Low current consumption.
- Tri state function.
- Suitable for high density SMT., Reflow capable.
- Tight stability option.
- Seam sealed package.

APPLICATIONS:

- CCD clock for VTR camera.
- Equipment connected to PC or PC cards.
- Thin equipment.

STANDARD SPECIFICATIONS

PARAMETERS	SPECIFICATIONS
Frequency Range (F ₀)	1.544MHz to 70.0MHz
Operating Temperature (T _{OPR})	-10°C to +70°C (See Options)
Storage Temperature (T _{STO})	-50°C to +125°C
Frequency Stability (ΔF/F ₀)	±100ppm max. (See Options)
Supply Voltage (V _{dd})	1.8 Vdc ±5%
Input Current (I _{dd})	8mA typ., 12mA max for F=50MHz with 15pF load 9mA typ., 18mA max for F=50MHz with 15pF load
Duty Cycle or Symmetry	40 / 60% max. (See Options)
Rise and Fall Times (T _R / T _F)	3.5ns max.
Output Load	15pF
Output Voltage (V _{OH} / V _{OL})	"1" 0.9 * V _{dd} min. "0" 0.1 * V _{dd} max.
Tri-State Function	"1" or Open: Oscillation ≥1.6V "0": Output disabled (Hi Z) <0.8V
Start-up Time	10ms max.
Aging per Year	±5ppm @ 25°C
Disable current (I _{dis})	15 μA typ.
Jitter one sigma RMS	±25ps max.

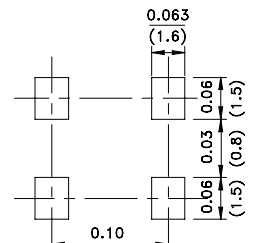


Connect a By-Pass capacitor 0.01 μF between V_{dd} and GND.
Environmental, and mechanical specifications, see appendix C. Group 2.
Marking, see appendix G. Test circuit, waveforms, see appendix B.
Tape and Reel, see appendix H.(1,000 pcs/reel).
Reflow profile, see appendix E.
Application notes, see appendix A.

PIN NO.	FUNCTION
1	Tri State
2	GND / Case
3	Output
4	V _{dd}

Bottom view

Recommended land pattern



Dimensions: Inches (mm)

ORDERING OPTIONS

ASFL3- Frequency - Temperature - Overall Frequency Stability - Duty Cycle - Packaging

XX.XXXXX MHz

- E for -20°C to +70°C
- 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 for ± 40ppm max.
-C for ± 50ppm max.

-T
(Tape & Reel)

-S for 45/55% @ 1/2 V_{dd}

* Vary with frequency and temperature.



Rev B
6/2003

NOTE: Left blank if standard • All specifications and markings subject to change without notice

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