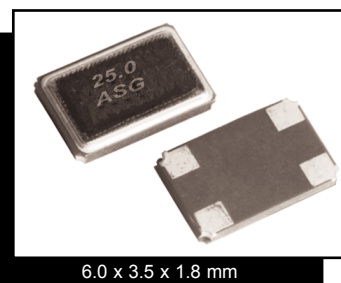


HC MOS/TTL COMPATIBLE • CERAMIC SURFACE MOUNT CRYSTAL CLOCK OSCILLATORS **ASG and ASGL**



FEATURES:

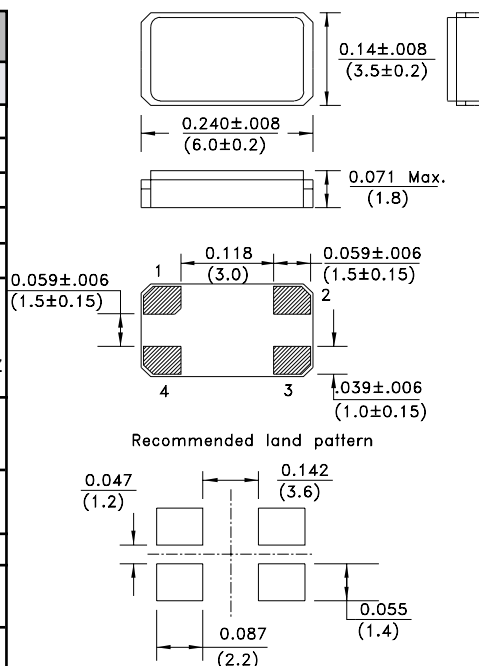
- Compact and low in height.
- Low current consumption
- Tristate Enable/Disable function.
- Suitable for high density SMT., Reflow capable.
- Tight stability option.
- Seam welding.

APPLICATIONS:

- CCD clock for VTR camera.
- Thin equipment.
- Equipment.

STANDARD SPECIFICATIONS

PARAMETERS	ASG	ASGL
Frequency Range (F_0)	0.5MHz ~ 107MHz	0.5MHz ~ 125MHz
Operating Temperature (T_{OPR})	-10°C to +70°C (See Options)	
Storage Temperature (T_{STO})	-55°C to +125°C	
Frequency Stability ($\Delta F/F_0$)	± 100 ppm max. (See Options)	
Supply Voltage (V_{dd})	5.0Vdc $\pm 10\%$	3.3Vdc $\pm 10\%$
Input Current (I_{dd})	25mA max. for $F < 40$ MHz 40mA max. for $F < 70$ MHz 60mA max. for $F \leq 107$ MHz	20mA max. for $F < 40$ MHz 35mA max. for $F < 80$ MHz 50mA max. for $F \leq 125$ MHz
Duty Cycle or Symmetry	45 / 55% max. for $F \leq 50$ MHz 40 / 60% max. for $F > 50$ MHz	40 / 60% max.
Rise and Fall Times (T_r / T_f)	10ns max. for $F \leq 40$ MHz 6ns max. for $F > 40$ MHz	
Output Load	15pF (50pF max.)	5TTL or 15pF
Output Voltage (V_{oh})	0.9 * V_{dd} min.	
(V_{ol})	0.1 * V_{dd} max.	
E/D Function (V_{ih})	"1" or Open: Oscillation $\geq 2.2V$	
(V_{il})	"0": Output disabled in high impedance (Hi Z) $< 0.8V$	



Connect a By-Pass capacitor 0.01 μ F 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. Recommended handling, see appendix F.

Dimensions: Inches (mm)

ORDERING OPTIONS

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

Blank or L

XX.XXXXXX 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

-R for ± 25 ppm max.
 -K for ± 30 ppm max.
 -H for ± 35 ppm max.
 -B for ± 40 ppm max.
 -C for ± 50 ppm max.

-T (Tape & Reel)
 -S for 45 / 55% @ 1/2 V_{dd}

PIN NO.	FUNCTION
1	Tristate E/D
2	GND / Case
3	Output
4	V_{dd}

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

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