# **CERAMIC SMD CRYSTAL CLOCK OSCILLATOR** WITH VOLTAGE CONTROL



#### 7.0 x 5.08 x 1.8mm

# **ASPE SERIES** > FEATURES:

Tri state function

- · Compact and low in height
- Complimentary PECL Outputs Suitable for high density SMT., Re
  - Tight stability option
- 2.5Vdc Supply Voltage Option

## > STANDARD SPECIFICATIONS:

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eflow capable		

- > APPLICATIONS:
  - Telecommunications Equipment
  - High speed switching devices
  - Routing devices

PARAMETERS	
Frequency Range	1.544 MHz to 700 MHz
Operating Temperature	0°C to + 70°C
Storage Temperature	- 55°C to + 125°C
Overall Frequency Stability	± 100 ppm max.
Supply Voltage (Vdd)	3.3 Vdc ± 5%
Input Current	80mA (for Fo < 160MHz), 120mA (for Fo>160MHz)
Symmetry	40/60 % max. (see options)
Rise and Fall Time (Tr/Tf)	400pS max
Output Load	50 Ω
Output Type	PECL
Output Voltage	VOH = 2.35V Typ (3.3Vdd), 1.55V Typ (2.5Vdd)
	VOL = 1.6V Typ (3.3Vdd), 0.8V Typ (2.5Vdd)
Pullability	± 70 ppm min. (see options)
Start-up Time	10mS max
Tristate Function	"1" (VIH >= 0.7* Vdd) or open: Oscillation
	"0" (VIL < 0.3* Vdd) : No oscillation/Hi Z
Jitter (12KHz - 20MHz)	3.5pS RMS max

PIN	FUNCTION
1	Voltage Control
2	Tri-state
3	GND/Case
4	Output
5	Output
6	Vdd

Note: Decoupling capacitor shall be connected between Vdd and GND for best performance and stability.

#### > OPTIONS AND PART IDENTIFICATION (Left blank if standard):

ASPE - Supply Voltage - Frequency - Temperature - Frequency Stability -Pullability - Symmetry - Packaging

**Supply Voltage options:** V for 3.3V±5% 2 for 2.5V+5%

**Stability options:** 

R for ± 25 ppm

K for ± 30 ppm H for ± 35 ppm

C for ± 50 ppm

### **Pullability option:**

- **N100** for ±100 ppm min

Temperature options:

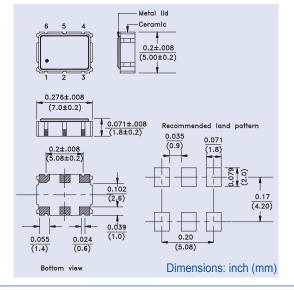
D for -10°C to +60°C

L for -40°C to +70°C

Packaging option: T for Tape and Reel (1,000pcs/reel)

Symmetry option:

- S for 45/55% at 1/2Vdd



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