

CERAMIC SMD CRYSTAL CLOCK OSCILLATOR WITH VOLTAGE CONTROL



ASPE SERIES

7.0 x 5.08 x 1.8mm

FEATURES:

- Complimentary PECL Outputs
- Compact and low in height
- Tri state function
- 2.5Vdc Supply Voltage Option
- Suitable for high density SMT., Reflow capable
- Tight stability option

APPLICATIONS:

- Telecommunications Equipment
- High speed switching devices
- Routing devices

STANDARD SPECIFICATIONS:

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.

MARKING:

- XX.XXX (Frequency)
- ASPE ZYX (Z: month A to L; Y: year 0 for 2000, 1 for 2001
X: Traceability code)

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%

Temperature options:

D for -10°C to +60°C
L for -40°C to +70°C

Symmetry option:

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

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

Packaging option:

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

OUTLINE DRAWING:

