

**PART NUMBERING GUIDE**

Environmental/Mechanical Specifications on page F5

|                                                                                                                         |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>PESM 00 HM 33 R T - 30.000MHz</b>                                                                                    |                                                                                 |
| <b>Package</b><br>PESM = 5X7X1.6mm, PECL Oscillator, High Frequency                                                     | <b>Pin One Connection</b><br>T = Tri State Enable High<br>N = No Connect        |
| <b>Inclusive Stability</b><br>00 = 100ppm<br>50 = 50ppm<br>25 = 25ppm<br>15 = 15ppm<br>10 = 10ppm                       | <b>Output Symmetry</b><br>R = 40/60%<br>S = 45/55%                              |
| <b>Operating Temperature Range</b><br>HM = 0°C to 70°C<br>GM = -10° to -20°C<br>FM = -20° to 70°C<br>CQ = -40°C to 85°C | <b>Voltage</b><br>18 = 1.8V<br>25 = 2.5V<br>30 = 3.0V<br>33 = 3.3V<br>50 = 5.0V |

**ELECTRICAL SPECIFICATIONS**

Revision: 2005-A

|                                        |  |                                                                                                                        |
|----------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency Range</b>                 |  | 74.000MHz to 200.000MHz                                                                                                |
| <b>Operating Temperature Range</b>     |  | 0°C to 70°C / -20°C to 70°C / -40°C to 85°C                                                                            |
| <b>Storage Temperature Range</b>       |  | -55°C to 125°C                                                                                                         |
| <b>Supply Voltage</b>                  |  | 1.8V, 2.5V, 3.0V, 3.3V, 5.0V                                                                                           |
| <b>Supply Current</b>                  |  | 70mA Maximum                                                                                                           |
| <b>Frequency Tolerance / Stability</b> |  | Inclusive of Operating Temperature Range, Supply Voltage and Load<br>±100ppm, ±50ppm, ±25ppm, ±20ppm, ±15ppm or ±10ppm |
| <b>Rise / Fall Time</b>                |  | 1.0 nSec Maximum (20% to 80% of Amplitude)                                                                             |
| <b>Duty Cycle</b>                      |  | 50 ±10% (Standard)<br>50±5% (Optional)                                                                                 |
| <b>Load Drive Capability</b>           |  | 50 ohms (Vcc to +2.0V)                                                                                                 |
| <b>Aging (@ 25°C)</b>                  |  | ±5ppm Maximum (first year)                                                                                             |
| <b>Start Up Time</b>                   |  | 10mSeconds Maximum                                                                                                     |
| <b>RMS Clock Jitter</b>                |  | 1pS Maximum                                                                                                            |

**MECHANICAL DIMENSIONS**

Marking Guide on page F3-F4

| Pin | Connection       |
|-----|------------------|
| 1   | Enable / Disable |
| 2   | NC               |
| 3   | Ground           |
| 4   | Output           |
| 5   | C - Output       |
| 6   | Vcc              |

