

# OCC3D

5mm x 7mm Ceramic SMD 6 Pads



## Features:

- ° 5mm x 7mm Ceramic SMD 6 Pads
- ° 3.3 Volt
- ° LVDS Output
- ° RoHS Compliant



Electrical Specification		
Frequency Range		19.440MHz - 700.000MHz
Temperature Stability		See options below
Operating Temperature Range		See options below
Storage Temperature Range		-55°C to +125°C
Supply Voltage (V <sub>DD</sub> )	± 5%	3.3V <sub>DC</sub>
Supply Current	19.440MHz to 160.000MHz 160.001MHz to 700.000MHz	50mA Maximum 65mA Maximum
Output Voltage Logic High (V <sub>OH</sub> )		1.43V <sub>DC</sub> Typical, 1.6V <sub>DC</sub> Maximum
Output Voltage Logic Low (V <sub>OL</sub> )		1.1V <sub>DC</sub> Typical, 0.9V <sub>DC</sub> Minimum
Duty Cycle	50% of waveform	40% / 60% Max or 45% / 55% Max
Load Drive Capability		100 Ohms
Rise/Fall Time	at 20% to 80% waveform	1nSec Maximum
Output Type		LVDS
Start Up Time		10mSeconds Maximum
Standby Current	No load	30µA Maximum
RMS Phase Jitter	12KHZ to 20MHz offset freq	0.4pSec Typical, 1pSec Maximum
Phase Noise	at 156.250MHz	-60dBc/Hz at 10Hz Offset -95dBc/Hz at 100Hz Offset -125dBc/Hz at 1kHz Offset -143dBc/Hz at 10kHz Offset -145dBc/Hz at 100kHz Offset -145dBc/Hz at 1MHz Offset -146dBc/Hz at 10MHz Offset
Tristate Function		V <sub>IH</sub> = 70% of V <sub>DD</sub> min to Enable Output V <sub>IL</sub> = 30% max or grounded to Disable Output (High Impedance)
Differential Output (V <sub>OD</sub> )		250mV Minimum, 450mV Maximum
Output Offset Voltage (V <sub>OS</sub> )		1.125V Minimum, 1.250V Typical, 1.375V Maximum
Differential Output Error (dV <sub>OS</sub> )		50mV Maximum

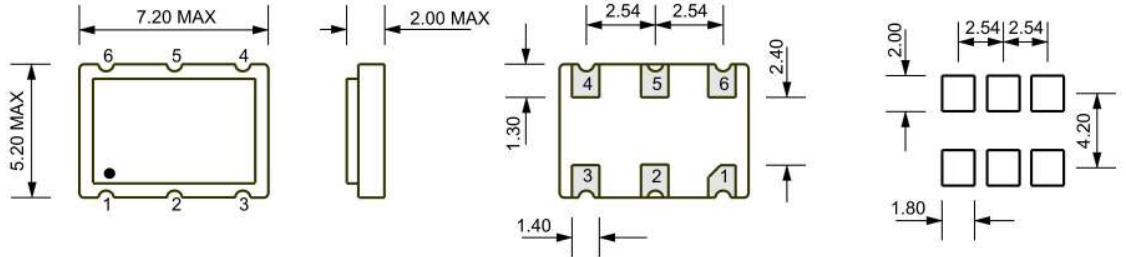
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## Mechanical Dimensions

Pad	FUNCTION
1	Tri-State or No Connect
2	No Connect or Tri-State
3	Case Ground
4	Output
5	Complimentary Output
6	Supply Voltage



ALL DIMENSIONS IN MILLIMETERS

### MARKING

Line 1: Ascend  
 Line 2: XX.XXX (Frequency)  
 Line 3: XXXXXX (Date Code)

## Part Number Guide

# OCC3D C 3 A T - 125.000M-TR

<p><b>Series</b> 5x7mm 6 pad Ceramic SMD, 3.3V, LVDS</p> <p><b>Freq. Toler/Stab.</b> A = ±100PPM B = ±50PPM C = ±25PPM</p> <p><b>Temperature Range</b> 1 = 0°C to +70°C 2 = -20°C to +70°C 3 = -40°C to +85°C</p>	<p><b>Packaging</b> TR = Tape and Reel</p> <p><b>Frequency</b></p> <p><b>Pin 1 Connection</b> T = Pin 1 Tristate, Pin 2 No connect N = Pin 2 Tristate, Pin 1 No connect</p> <p><b>Duty Cycle</b> A = 40% / 60% B = 45% / 55%</p>
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