

OCD5P(3P)(3D) SERIES

- 6 J-Leads Ceramic SMD, PECL, LVPECL, LVDS
- 5.0V, 3.3V
- Wide Frequency Range
- Low Jitter / Phase Noise



Electrical Specifications

Frequency Range:	-	70.000MHz to 622.080MHz
Frequency Stability:	-	See ordering options below (inclusive of Temperature, Load, Voltage and Aging)
Operating Temperature Range:	-	See ordering options below
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	5.0Vdc ±5%, 3.3Vdc ±5%
Supply Current:	-	60mA maximum (3.3Vdc ±5%); 85mA maximum (5.0Vdc ±5%)
Output Voltage High "1", Voh:	-	1.025Vdc min (LVPECL); 1.43Vdc typ, 1.60Vdc max. (LVDS)
Output Voltage Low "0", Vol:	-	1.620Vdc max (LVPECL); 1.10Vdc typ, 0.90Vdc min. (LVDS)
Duty Cycle:	50% of waveform	40%/60% maximum or 45%/55% maximum
Load Drive Capability:	-	50 Ohms into Vdd -2.00Vdc
Rise/Fall Time:	20% to 80% of waveform	5nSec maximum
Jitter:	at 12kHz to 20MHz (RMS)	0.4pSec typical, 1pSec Maximum
Phase Noise:	F _o = 156.250MHz	-60dBc/Hz at 10Hz Offset -145dBc/Hz at 100kHz Offset -95dBc/Hz at 100Hz Offset -145dBc/Hz at 1MHz Offset -125dBc/Hz at 1kHz Offset -146dBc/Hz at 10MHz Offset -143dBc/Hz at 10kHz Offset
Enable High:		Vcc - 2.0V min.= Output enabled, Vcc - 0.80V max. = output disabled
Enable Low:	Optional	Vcc - 1.62 VDC max.= Output enabled, Vcc - 1.025 VDC min. = output disabled

Mechanical Dimensions

Humidity:	85% RH, 85°C, 48 Hours
Hermetic Seal:	Leak Rate 2 X 10 ⁻⁸ ATM-CM ³ /sec max
Solderability:	MIL-STD-202G, Method 208
Reflow Solderability:	260°C for 10 seconds
Vibration:	MIL-STD-202G, Method 204 35G, 50 to 2000 Hz
Shock:	MIL-STD-202G, Method 203 Test Cond E, 1000G's, ½ Sinewave
MIL-STD-883:	Available with Level B Screening

Mechanical Dimensions

Pad	FUNCTION
1	Tristate or No Connect
2	No Connect or Tristate
3	Case Ground
4	Output
5	Complimentary Output
6	Supply Voltage (Vdd)

Line	Marking
1	Frequency
2	Date Code

ALL DIMENSIONS IN MILLIMETERS

Part Numbering Guide

OCD 5P A 1 A A L - 70.000M

<p>Series 6 J-Leads Ceramic SMD</p> <p>Supply Voltage 5P = 5.0V (PECL) 3D = 3.3V (LVDS) 3P = 3.3V (LVPECL)</p> <p>Freq. Toler/Stab. A = ±100PPM C = ±25PPM B = ±50PPM D = ±20PPM</p> <p>Temperature Range 1 = 0°C to +70°C 3 = -40°C to +85°C 2 = -20°C to +70°C 4 = -55°C to +125°C</p>	<p>Frequency</p> <p>Enable/Disable Blank = Enable High L = Enable Low</p> <p>Pin 1 & 2 Connection T = Pin 1 - Tri-State, Pin 2 = No Connect N = Pin 2 - Tri-State, Pin 1 = No Connect</p> <p>Duty Cycle A = 40% / 60% C = 47.5% / 52.5%** B = 45% / 55%</p>
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**Option C (47.75% / 52.5%) Available up to 500MHz only

Specifications subject to change without notice