

OC-35 Series

3.2X5X1.2mm / 3.3V / SMD / HCMOS/TTL Oscillator

Lead-Free
RoHS Compliant

CALIBER
Electronics Inc.

PART NUMBERING GUIDE

Environmental/Mechanical Specifications on page F5

OC-35A- 100 48 A T - 30.000MHz	
Package	Pin One Connection
OC-35 = 3.3Vdc	T = Tri State Enable High
OC-35A = 1.8Vdc	
OC-35B = 2.5Vdc	Output Symmetry
	Blank = 40/60%, A = 45/55%
Inclusive Stability	Operating Temperature Range
100= +/-100ppm, 50= +/-50ppm, 30= +/-30ppm, 25= +/-25ppm, 20= +/-20ppm (25,20 = 0°C-70°C Only)	Blank = -10°C to 70°C, 27 = -20°C to 70°C, 48 = -40°C to 85°C

ELECTRICAL SPECIFICATIONS

Revision: 2003-B

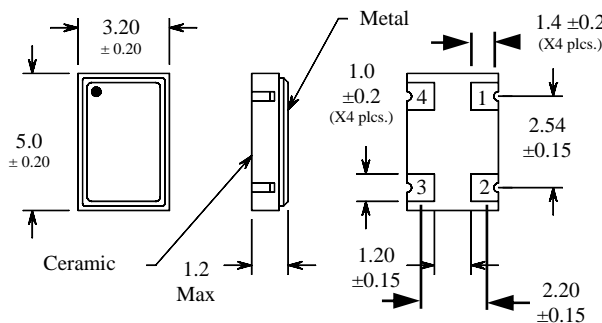
Frequency Range	1.544MHz to 156.250MHz / 32.768kHz @ 3.3V	
Operating Temperature Range	-10°C to 70°C / -20°C to 70°C / -40°C to 85°C	
Storage Temperature Range	-55°C to 125°C	
Supply Voltage	A=1.8Vdc / B=2.5Vdc / BLANK=3.3Vdc ±10%	
Input Current	1.544MHz to 36.000MHz and 32.768kHz 36,001MHz to 70.000MHz 70.001MHz to 125.000MHz	2mA Maximum 5mA Maximum 7mA Maximum
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage and Load	±100ppm, ±50ppm, ±30ppm, ±25ppm, ±20ppm (±50ppm for 32.768kHz only)
Output Voltage Logic High (Voh)	w/HCMOS or TTL Load	90% of Vdd Min. / Ioh=-8mA
Output Voltage Logic Low (Vol)	w/HCMOS or TTL Load	10% of Vdd Max. / Iol=8mA
Rise / Fall Time	10% to 90% of Waveform w/HCMOS Load; 0.4Vdc to 2.4V w/TTL Load / 6nSec Max.	
Duty Cycle	@1.4Vdc w/TTL Load; @50% w/HCMOS Load @1.4Vdc w/TTL Load or w/HCMOS Load	50 ±10% (Standard) 50±5% (Optional)
Load Drive Capability	≤70.000MHz >70.000MHz ≤70.000MHz (Optional)	10LSTTL Load or 15pF HCMOS Load 15pF HCMOS Load 10TTL Load or 50pF HCMOS Load
Pin 1 Tristate Input Voltage	No Connection VIH VIL	Enables Output 2.2Vdc Minimum to Enable Output +0.8Vdc Maximum to Disable Output
Aging (@ 25°C)	±5ppm / year Maximum	
Start Up Time	10mSeconds Maximum	
Absolute Clock Jitter	±250pSeconds Maximum	
One Sigma Clock Jitter	±50pSeconds Maximum	

MECHANICAL DIMENSIONS

Marking Guide

All Dimensions in mm.

Application Note:
A 0.01uF bypass capacitor should be placed between Vdd (pin 4) and GND (pin 2) to minimize power supply line noise.



Line 1: A, B or Blank - Frequency
Line 2: CEI YM
A = Voltage designator
CEI = Caliber Electronics Inc.
YM = Date Code (Year / Month)

Pin 1: Tri-State
Pin 2: Case Ground

Pin 3: Output
Pin 4: Supply Voltage

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