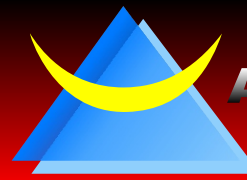


OCB SERIES

- 3.2mm x 5.0mm Ceramic SMD
- 5.0, 3.3, 2.5, and 1.8 Volt
- HCMOS/TTL Output
- RoHS Compliant



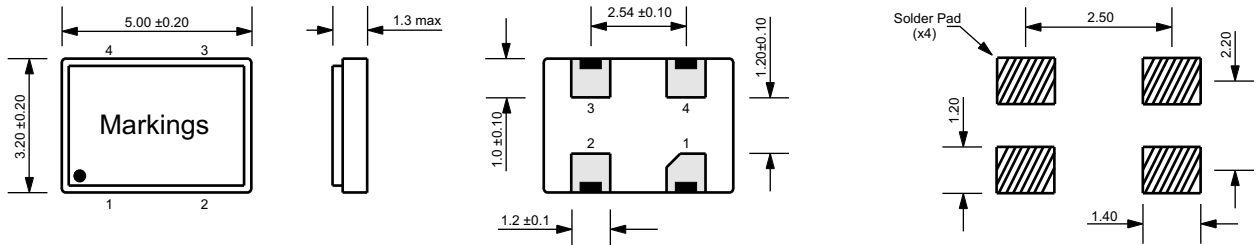
ASCEND

FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	Vdd = 5.0V Vdd = 3.3V Vdd = 2.5V and 1.8V	.32768MHz to 80.000MHz .32768MHz to 125.000MHz 1.000MHz to 125.000MHz
Temperature Stability:	-	See Ordering Options Below (Inclusive of Temperature, Load, Voltage and Aging(±5ppm))
Operating Temperature Range:	-	See Ordering Options Below
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	±10%	5.0Vdc, 3.3Vdc, 2.5Vdc, or 1.8Vdc
Supply Current:	Vdd = 5.0V Vdd = 3.3V Vdd = 2.5V Vdd = 1.8V	10mA Maximum (2.5MHz to 24.9MHz); 20mA Maximum (25MHz to 49.999MHz); 25mA (50MHz to 80MHz) 8mA Maximum (1.0MHz to 24.9MHz); 15mA Maximum (20MHz to 40MHz); 25mA (40.1MHz to 70MHz); 50mA Maximum (80.1MHz to 160MHz) 6mA Maximum (2.5MHz to 19.9MHz); 10mA Maximum (20MHz to 40MHz) 4mA Maximum (2.5MHz to 19.9MHz); 8mA Maximum (20MHz to 40MHz)
Output Voltage HCMOS:	Logic 0 Logic 1	10% Vdd Maximum 90% Vdd Minimum
Duty Cycle:	50% of waveform	40%/60% Maximum or 45%/55% Maximum
Load Drive Capability:	Vdd = 5.0V, 3.3V, or 2.5V Vdd = 1.8V	15pF Maximum 5pF Maximum
Rise/Fall Time:	-	7nSec Maximum
Start Up Time:	-	10mSec Maximum
Tristate Function	No Connect V _{IH} ≥90% of V _{DD} V _{IL} ≤10% of V _{DD}	Output Enabled Output Enabled Output Disabled (High Impedance)
RMS Phase Jitter	12KHz to 20MHz	1pSec Maximum
Standby Current	Disabled Output	10uA Maximum

Mechanical Dimensions



Pad	FUNCTION
1	Tri-State (E/D)
2	Ground / Case
3	Output
4	Supply Voltage

MARKING

Line 1: AXX.XXX
Line 2: XXXXXX (Date Code)

ALL DIMENSIONS
IN MILLIMETERS

Part Numbering Guide

OCB 3H C 3 A - 33.000M - TR

Series

3.2 x 5.0 Ceramic SMD

Supply Voltage

5H = 5.0V (HCMOS)
3H = 3.3V (HCMOS)
2H = 2.5V (HCMOS)
1H = 1.8V (HCMOS)

Freq. Toler/Stab.

A = ±100PPM
B = ±50PPM
C = ±25PPM
D = ±20PPM
E = ±15PPM*
F = ±10PPM*

*Not available from -40°C to +85°C

Packaging

Blank = Bulk
-TR = Tape and Reel

Frequency

Duty Cycle

A = 40% / 60%
B = 45% / 55%

Temperature Range

1 = -10°C to +60°C
2 = -20°C to +70°C
3 = -40°C to +85°C