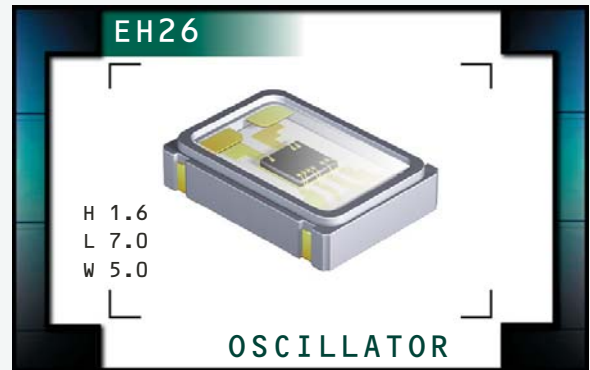


EH26 Series

- RoHS Compliant (Pb-Free)
- Ceramic SMD package
- 3.3V supply voltage
- LVHCMOS output
- Stability to ± 20 ppm
- Available on tape and reel



ECLIPTEK[®]
CORPORATION



NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range		1.000MHz to 155.520MHz
Operating Temperature Range		0°C to 70°C or -40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V_{DD})		3.3V _{DC} \pm 0.3V _{DC}
Input Current		35mA Maximum (Unloaded)
Frequency Tolerance / Stability	Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration	± 100 ppm, ± 50 ppm, ± 25 ppm, or ± 20 ppm Maximum
Output Voltage Logic High (V_{OH})		2.7V _{DC} Minimum $I_{OH} = -8$ mA
Output Voltage Logic Low (V_{OL})		0.5V _{DC} Maximum $I_{OL} = +8$ mA
Rise Time / Fall Time	≤ 70.000 MHz 20% to 80% of Waveform w/HCMOS Load > 70.000 MHz 20% to 80% of Waveform w/HCMOS Load	6 nSeconds Maximum 4 nSeconds Maximum
Load Drive Capability	≤ 70.000 MHz > 70.000 MHz	30pF HCMOS Load Maximum 15pF HCMOS Load Maximum
Duty Cycle (at $V_{DD} = 3.3V_{DC}$)	at 50% of Waveform	50 \pm 10(%) (Standard) or 50 \pm 5(%) (Optional)
Tri-State Input Voltage	V_{IH} : No Connection or $\geq 2.2V_{DC}$ V_{IL} : $\leq 0.8V_{DC}$	Enables Output Disables Output: High Impedance
Aging (at 25°C)		± 5 ppm / year Maximum
Start Up Time		10mSeconds Maximum
Period Jitter: Absolute		± 250 pSec Maximum, ± 100 pSec Typical
Period Jitter: One Sigma		± 50 pSec Maximum, ± 40 pSec Typical

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EH26

PACKAGE
CERAMIC

VOLTAGE
3.3V

CLASS
OS48

REV. DATE
07/08

PART NUMBERING GUIDE

EH26 00 ET TS - 24.000M TR

FREQUENCY TOLERANCE / STABILITY

00=±100ppm Maximum (Standard), 45=±50ppm Maximum, 25=±25ppm Maximum, 20=±20ppm Maximum

OPERATING TEMP. RANGE

Blank=0°C to 70°C or
ET=-40°C to 85°C

DUTY CYCLE

Blank=50±10% (Standard)
T=50±5%

AVAILABLE OPTIONS

Blank=Bulk (Standard)
TR=Tape and Reel

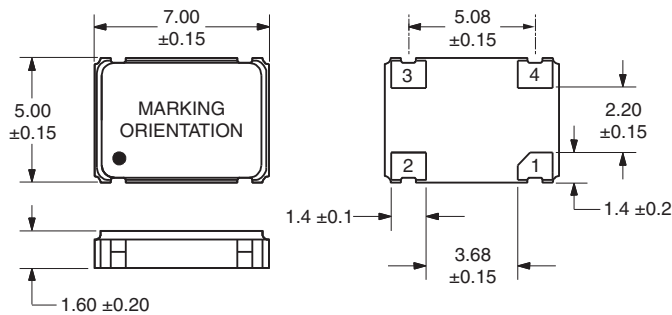
FREQUENCY

OUTPUT CONTROL FUNCTION

TS=Tri-State

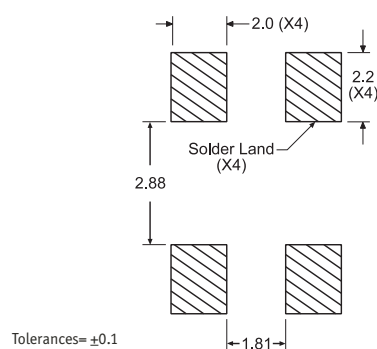
MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



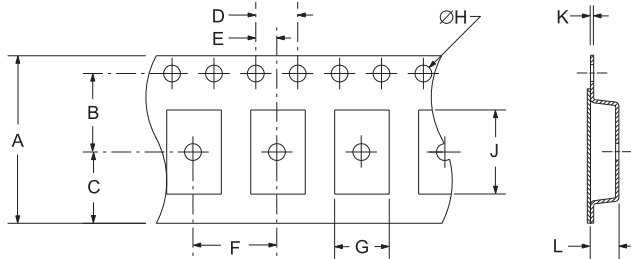
SUGGESTED SOLDER PAD LAYOUT

ALL DIMENSIONS IN MILLIMETERS

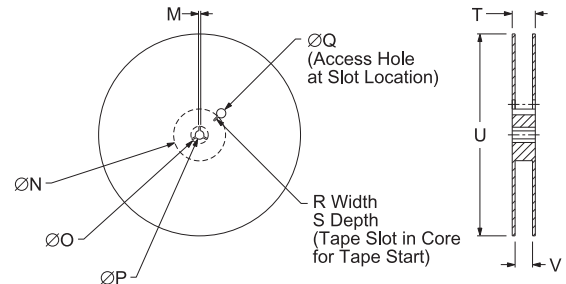


TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



REEL	A	B	C	D	E
	16+3-1	7.5±1	6.75±1	4±1	2±1
F	G	H	J	K	L
8±1	B0*	1.5+1-0	A0*	.3±.05	K0*



REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13±.2	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	22.4 MAX	360 MAX	16.4+2-0	1,000

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic	Specification
ESD Susceptibility	MIL-STD-883, Method 3015, Class 1, HBM: 1500V
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Flammability	UL94-V0
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003
Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: XX.XXX M

Frequency in MHz (5 Digits Maximum + Decimal)

Line 3: P XX Y ZZ

Week of Year
Last Digit of Year
Eclipse Manufacturing Identifier
Configuration Designator

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EH26	CERAMIC	3.3V	OS48	07/08