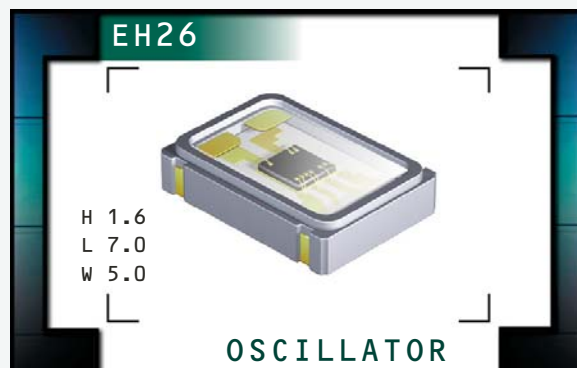


EH26 Series

- Crystal Clock Oscillators
- LVCMOS Output
- +3.3V Supply Voltage
- Tri-State Output Function
- 4 Pad Ceramic SMD Package
- RoHS Compliant (Pb-Free)



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} ±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 ±100ppm, ±50ppm, ±25ppm, or ±20ppm Maximum
Output Voltage Logic High (V_{OH})		2.7V _{DC} Minimum I_{OH} = -8mA
Output Voltage Logic Low (V_{OL})		0.5V _{DC} Maximum I_{OL} = +8mA
Rise Time / Fall Time	≤70.000MHz 20% to 80% of Waveform	6 nSeconds Maximum
	>70.000MHz 20% to 80% of Waveform	4 nSeconds Maximum
Load Drive Capability	≤70.000MHz	30pF Maximum
	>70.000MHz	15pF Maximum
Duty Cycle (at V_{DD}=3.3V_{DC})		at 50% of Waveform 50 ±10(%) (Standard) or 50 ±5(%) (Optional)
Tri-State Input Voltage	V_{IH} : No Connection or ≥2.2V _{DC}	Enables Output
	V_{IL} : ≤0.8V _{DC}	Disables Output: High Impedance
Aging (at 25°C)		±5ppm / year Maximum
Start Up Time		10mSeconds Maximum
Period Jitter: Absolute		±250pSec Maximum, ±100pSec Typical
Period Jitter: One Sigma		±50pSec Maximum, ±40pSec Typical

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EH26

PACKAGE
CERAMIC

VOLTAGE
3.3V

CLASS
0548

REV. DATE
06/10

PART NUMBERING GUIDE

EH26 00 ET TS - 24.000M TR

FREQUENCY TOLERANCE / STABILITY

00 = ± 100 ppm Maximum
45 = ± 50 ppm Maximum
25 = ± 25 ppm Maximum
20 = ± 20 ppm Maximum

OPERATING TEMP. RANGE

Blank = 0°C to +70°C
ET = -40°C to +85°C

DUTY CYCLE

Blank = 50 $\pm$ 10(%)
T = 50 $\pm$ 5(%)

AVAILABLE OPTIONS

Blank = Bulk
TR = Tape & Reel

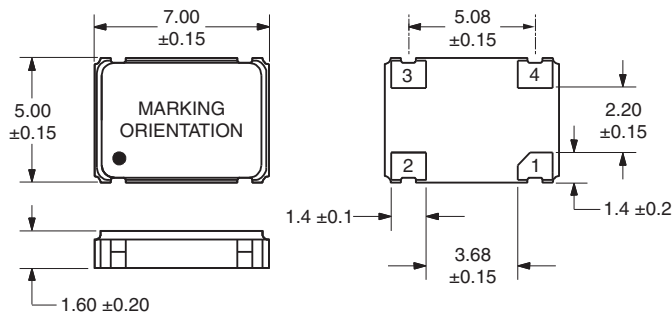
FREQUENCY

OUTPUT CONTROL FUNCTION

TS = Tri-State

MECHANICAL DIMENSIONS

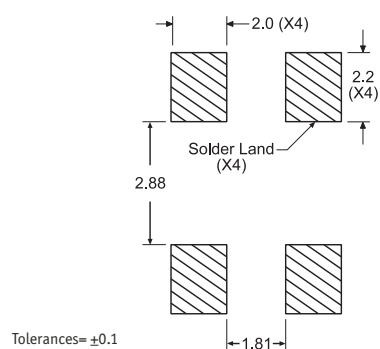
ALL DIMENSIONS IN MILLIMETERS



Pin 1: Tri-State
Pin 2: Case Ground
Pin 3: Output
Pin 4: Supply Voltage

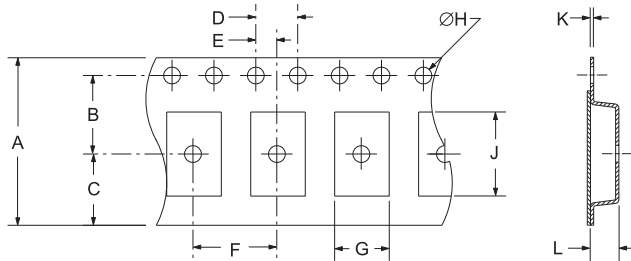
SUGGESTED SOLDER PAD LAYOUT

ALL DIMENSIONS IN MILLIMETERS

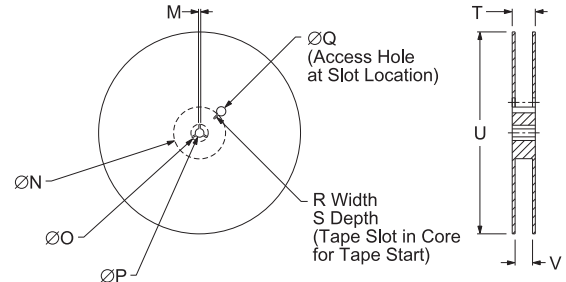


TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



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



REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13 $\pm$ 2	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	22.4 MAX	360 MAX	16.4 $\pm$ 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: XXXXXX _____ Eclipsek Manufacturing Identifier

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EH26	CERAMIC	3.3V	OS48	06/10