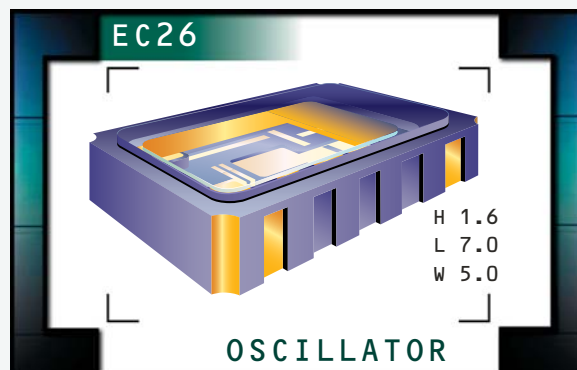


EC26 Series

- Ceramic SMD package
- 3.3V supply voltage
- HCMOS/TTL output
- Stability to 20ppm
- Available in tube or tape and reel



NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range		1.544MHz to 156.250MHz
Operating Temperature Range		±100ppm, ±50ppm or ±25ppm -10°C to 70°C or -40°C to 85°C ±20ppm -10°C to 70°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V_{DD})		3.3V _{DC} ±10%
Input Current	1.544MHz to 36.000MHz	10mA Maximum
	36.001MHz to 50.000MHz	18mA Maximum
	50.001MHz to 70.000MHz	20mA Maximum
	70.001MHz to 106.250MHz	40mA Maximum
	106.251MHz to 156.250MHz	60mA Maximum
Frequency Tolerance / Stability		Inclusive of Operating Temperature Range, Supply Voltage, and Load ±100ppm or ±50ppm, ±25ppm or ±20ppm Max.
Output Voltage Logic High (V_{OH})	w/HCMOS or TTL Load	90% of V_{DD} Min. $I_{OH} = -8mA$
Output Voltage Logic Low (V_{OL})	w/HCMOS or TTL Load	10% of V_{DD} Max. $I_{OL} = +8mA$
Rise / Fall Time		10% to 90% of Waveform w/HCMOS Load; 0.4V _{DC} to 2.4V _{DC} w/TTL Load 5 nSeconds Maximum
Duty Cycle	at 50% of Waveform w/HCMOS Load; at 1.4V _{DC} w/TTL Load	50 ±10(%) (Standard)
	≤ 125.000MHz at 50% of waveform w/HCMOS Load or w/TTL Load	50 ±5(%) (Optional)
	> 125.000MHz at 50% of waveform w/HCMOS Load, at 25°C, at 3.3Vdc	50 ±5(%) (Optional)
Load Drive Capability	≤70.000MHz	10LSTTL Load or 15pF HCMOS Load
	>70.000MHz	15pF HCMOS Load
Tri-State Input Voltage	No Connection	Enables Output
	$V_{IH} \geq 70\%$ of V_{DD}	Enables Output
	$V_{IL} \leq 30\%$ of V_{DD}	Disables Output: High Impedance
Aging (at 25°C)		±5ppm / year Maximum
Start Up Time		10 mSeconds Maximum
Period Jitter: Absolute		±100pSeconds Maximum
Period Jitter: One Sigma		±25pSeconds Maximum

MANUFACTURER ECLIPTEK CORP.	CATEGORY OSCILLATOR	SERIES EC26	PACKAGE CERAMIC	VOLTAGE 3.3V	CLASS OS30	REV. DATE 05/02
--------------------------------	------------------------	----------------	--------------------	-----------------	---------------	--------------------

PART NUMBERING GUIDE

EC26 00 ET TS - 40.000M TR

FREQUENCY TOLERANCE / STABILITY

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

OPERATING TEMPERATURE RANGE

Blank=-10°C to 70°C (Standard)
ET=-40°C to 85°C

PACKAGING OPTIONS

Blank=Bulk, TR=Tape and Reel (Standard)

FREQUENCY

OUTPUT CONTROL FUNCTION

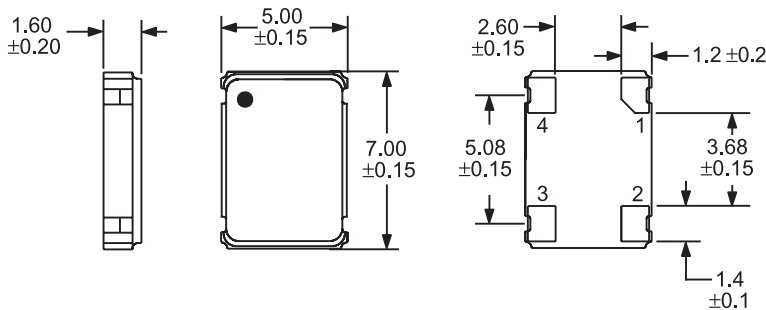
TS=Tri-State

DUTY CYCLE

Blank=50±10(%) (Standard), T=50±5(%)

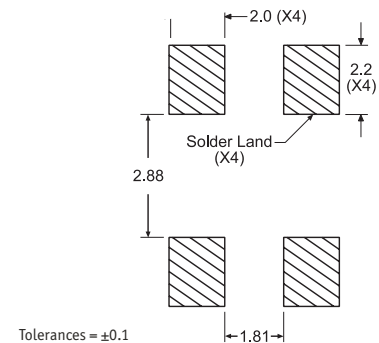
MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



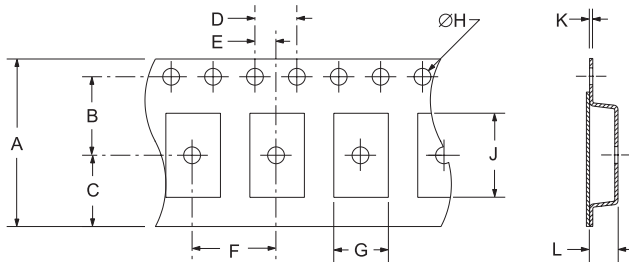
SUGGESTED SOLDER PAD LAYOUT

ALL DIMENSIONS IN MILLIMETERS

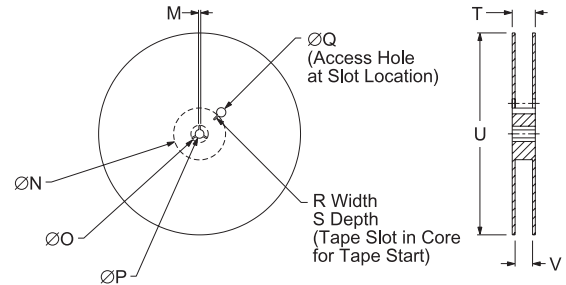


TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



TAPE	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
Seal Integrity	Bubble test in Perfluorocarbon at +125°C ±5°C for 60 seconds minimum.
Solderability	Sn63 Solder dip at +230°C ±5°C for 5 seconds/95% coverage.
Marking Permanency	10 Strokes with brush after 1 minute soak in solvent, 3 times.
Shock	Random drop on hard wooden plate 3 times from a height of 50cm.
Thermal Shock	300 Cycles from -55°C to +125°C, 5 minute dwell.

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: XX.XXX M

Frequency in MHz (5 Digits Maximum + Decimal)

Line 3: XX Y ZZ

Week of Year

Last Digit of Year

Ecliptek Manufacturing Identifier

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EC26	CERAMIC	3.3V	OS30	05/02