



- ▶ High Stability Oscillator
- ▶ 2.5 x 3.2 mm Footprint
- ▶ Low Current Consumption
- ▶ RoHS Compliant

ECS-2532HS

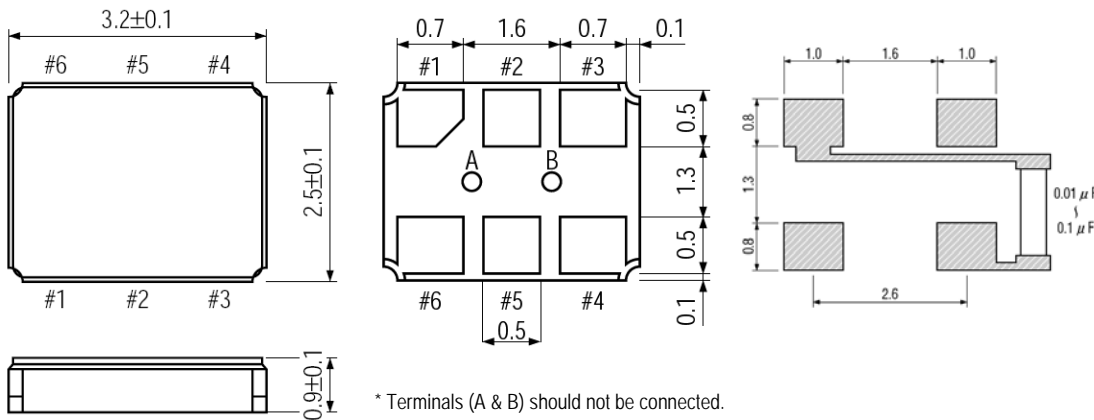
SMD CLOCK OSCILLATOR

ECS-2532HS-2 (2.8V) and ECS-2532HS-3 (3.3V) subminiature High Stability SMD oscillators. Ideal for today's tight tolerance applications.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-2532HS-2 (+2.8V)			ECS-2532HS-3 (+3.3V)			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Frequency Range		1.000		45.000	1.000		45.000	MHz
Operating Temperature	Standard	-40		+85	-40		+85	°C
Supply Voltage	VDD	+2.66	+2.8	+2.94	+3.135	+3.3	+3.465	VDC
Frequency Stability	Option E			± 20			± 20	ppm
	Option F			± 15			± 15	ppm
	Option G			± 10			± 10	ppm
Input Current	Pin 1 Open or ViH			10			10	mA
Stand-by Current	Pin 1 = VIL			10			10	µA
Output Symmetry	@ 50% VDD level			45/55			45/55	%
Rise and Fall Times	10% VDD to 90% level			5			5	ns
"0" level	VOL			10% VDD			10% VDD	VDC
"1" level	VOH	90% VDD			90% VDD			VDC
Output Load	CMOS			15			15	pF
Disable delay time				100			100	ns
Startup time				10			10	ms
Aging	@ +25°C ±3°C first year			2			2	ppm

TOP, BOTTOM, SIDE VIEWS & LAND PATTERN



* Terminals (A & B) should not be connected.

Pin Connections

Pin #1	Tri-State
Pin #2	No Connect
Pin #3	Ground
Pin #4	Output
Pin #5	No Connect
Pin #6	VDD

Tri-State Control Voltage

Pad 1	Pad 4
Open	Output
VDD-0.5V Min.	Output
0.5V Max. (Note 1)	High Impedance

Note 1: Internal crystal oscillation to be halted (Pin #1=VIL)

PART NUMBERING GUIDE: Example ECS - 2532HS - 200 - 3 - G - TR

ECS	- Series	- Frequency Abbreviation	- Voltage	- Stability	- Packaging
	2532HS	200 = 20.000 MHz See Frequency Abbreviations	2 = +2.8V ±5% 3 = +3.3V ±5%	E = +/- 20 ppm F = +/- 15 ppm G = +/- 10 ppm	TR = Tape & Reel 500/Reel