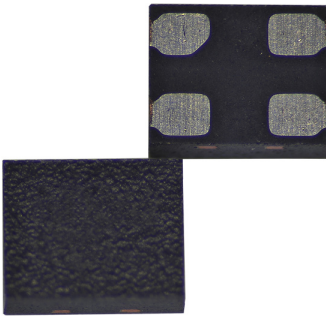# SMD MEMS Oscillators
2mm x 1.6mm x 0.75mm

multicomp PRO

RoHS Compliant

Features

- Frequency range from 4MHz to 80MHz
- Excellent frequency stability as low as ±20ppm
- Low power consumption of 3.5mA at 1.8V
- Standby mode for longer battery life
- Fast startup time of 5ms
- LVCMOS/HCMOS output type
- Size with 2mm × 1.6mm
- Automatic mounting and reflow soldering
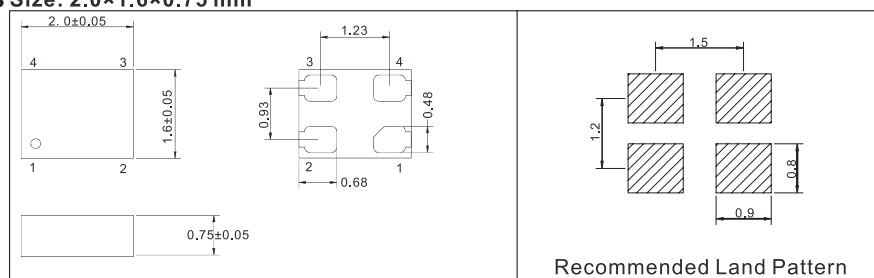- Applications: DSC, Ethernet, USB, SATA, IP Cam, Tablets, E-books, etc

Standard Specification

Output Type	LVCMOS/HCMOS
Frequency Range	4MHz to 80MHz
Supply Voltage	1.8V to 3.3V
Frequency Stability	±20ppm to ±50ppm
Frequency Tolerance	±30ppm
Current Consumption	4.5mA Max.
Standby Current	4.3mA Max.
OE Disable Current	4.2mA Max.
Operating Temperature	-40°C to +85°C
Duty Cycle	45% to 55%
Rise/Fall Time	2.5ns Max.
Voltage Vol (Max.)/Voh (Min.)	10% Vcc/90%Vcc
Voltage Vil (Max.)/Vih (Min.)	30% Vcc/70% Vcc
Input Pull-up Impedance	150KΩ Max. (Pin1 Logic High)
	2MΩ Min. (Pin1 Logic Low)
Start-up Time	5ms Max.
Enable/Disable Time	130ns Max.
Resume Time	5ms Max.
RMS Period Jitter	3pS Max
Peak to Peak Period Jitter	30pS Max.
RMS Phase Jitter (12KHz to 20MHz)	2pS Max.
Storage Temperature	-65°C to +150°C

Pin Connections

Pin No.	Connection
1	OE /ST /NC
2	GND
3	Output
4	Vcc

Dimensions : Millimetres

Dimensions Size: 2.0×1.6×0.75 mm

Recommended Land Pattern

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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SMD MEMS Oscillators
2mm x 1.6mm x 0.75mm

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Part Number Table

Description	Part Number
SMD MEMS Oscillator, 4MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007041
SMD MEMS Oscillator, 4MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007042
SMD MEMS Oscillator, 8MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007043
SMD MEMS Oscillator, 8MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007044
SMD MEMS Oscillator, 10MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007045
SMD MEMS Oscillator, 10MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007046
SMD MEMS Oscillator, 12MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007047
SMD MEMS Oscillator, 12MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007048
SMD MEMS Oscillator, 16MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007049
SMD MEMS Oscillator, 16MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007050
SMD MEMS Oscillator, 20MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007051
SMD MEMS Oscillator, 20MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007052
SMD MEMS Oscillator, 24MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007053
SMD MEMS Oscillator, 24MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007054
SMD MEMS Oscillator, 25MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007055
SMD MEMS Oscillator, 25MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007056
SMD MEMS Oscillator, 26MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007057
SMD MEMS Oscillator, 26MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007058
SMD MEMS Oscillator, 27MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007059
SMD MEMS Oscillator, 27MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007060
SMD MEMS Oscillator, 30MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007061
SMD MEMS Oscillator, 30MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007062
SMD MEMS Oscillator, 32MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007063
SMD MEMS Oscillator, 32MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007064
SMD MEMS Oscillator, 37.4MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007065
SMD MEMS Oscillator, 37.4MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007066
SMD MEMS Oscillator, 38.4MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007067
SMD MEMS Oscillator, 38.4MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007068
SMD MEMS Oscillator, 48MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007069
SMD MEMS Oscillator, 48MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007070
SMD MEMS Oscillator, 49.152MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007071
SMD MEMS Oscillator, 49.152MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007072
SMD MEMS Oscillator, 66MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007073
SMD MEMS Oscillator, 66MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007074
SMD MEMS Oscillator, 80MHz, 1.8V, 2mm x 1.6mm x 0.75mm	MP007075
SMD MEMS Oscillator, 80MHz, 3.3V, 2mm x 1.6mm x 0.75mm	MP007076

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