

7.0 x 5.0mm SMD

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FEATURES

- Miniature 7.0 x 5.0mm package
- Frequency Range from 312.5kHz
- · Supply current from 2mA
- Supply voltage range: 1.0, 1.2, 1.8, 2.5, 3.3 or 5.0 Volts
- Tristate function for power conservation

DESCRIPTION

SWO oscillators are a general-purpose clock oscillator in the industry-standard, $7.0 \times 5.0 \times 1.4$ mm, miniature package. The part is ideal for space-constrained applications. The oscillator is available with 1.0, 1.2, 1.8, 2.5, 3.3 or 5.0 Volts supply voltage.



APPLICATIONS

- CPU, Graphics, Multimedia, A/V clocks
- MPEG / DVD / HDTV clocks
- Laser engine pixel set / set-top clocks
- OC-3, OC-2. OC-48 and OC-192 clocks
- SONET / SDH / ATM clocks
- Fast Ethernet and Gigabit Ethernet clocks
- NTSC / PAL encoder/decoder clocks
- PLL / synthesizer clocks
- Fibre channel and ADSL clocks

SUPPLY VOLTAGE/CURRENT CONSUMPTION/RISE ANDFALL TIME

Supply Voltage	+1.0VDC±5% Code = '1'	+1.2VDC±5% Code = '12'	+1.8VDC±5% Code = '18'	+2.5VDC±5% Code = '25'	+3.3VDC±5% Code = '3'	+5.0VDC±10% Code = '_'
Available Frequency Range	0.5~40MHz	0.5~50MHz	1.0~160MHz	0.3~160MHz	0.3~160MHz	0.5~125.0MHz
Logic HIGH '1' (90%Vdd min.)	0.9V min.	0.9V.min	1.62V min.	2.25V min.	2.97V min.	4.5V min.
Logic LOW '0' (90% Vdd max.)	0.1V max	0.1V max.	0.18V max.	0.25V max.	0.33V max.	0.5V max.
Current Consumption	[0.5~32MHz] 2.0mA max.	[0.5~32MHz] 2.5mA max.	[1.0~1.5MHz] 5mA max.	[0.3~1.5MHz] 5mA max.	[0.3~1.5MHz] 5mA max.	[0.3~1.5MHz] 5mA max.
			[1.5~20MHz] 8mA max.	[1.5~20MHz] 8mA max.	[1.5~20MHz] 8mA max.	[1.5~20MHz] 10mA max.
	[32.1~40MHz] 3.0mA max.	[32.1~50MHz] 3.5mA max.	[20~50MHz] 15mA max.	[20~50MHz] 15mA max.	[20~50MHz] 15mA max.	[20~50MHz] 15mA max.
			[50.1~125MHz] 22mA max.	[50.1~160MHz] 25mA max.	[50.1~160MHz] 35mA max.	[50.1~160MHz] 40mA max.
Rise Time/Fall Time	6ns max.	6ns max.	7ns max.	7ns max.	10ns max.	10ns max.
	Measured between 10% ~ 90% of wave form (CL = 15pF)					

GENERAL SPECIFICATION

Frequency Range: 0.3125MHz to 125.0MHz

Operating Temperature Range

Commercial: -10° to +70°C Industrial: -40° to +85°C

Frequency Stability*: From ±25ppm over -40° to +85°C. See Part Number

Format table.

Output Load: 15pF max., 30pF and 50pF available for parts with 3.3V

or 5.0V supply

Duty Cycle: 50% ±10%standard, option of 50% ±5% (add 'S' to end of

part number for $\pm 5\%$

Start-up Time

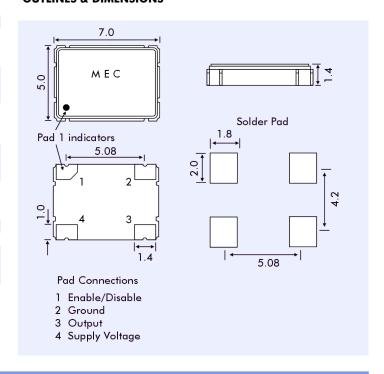
1.0~32.0MHz: 5ms max. 32.0~160.0MHz: 10ms max.

Storage Temperature Range: -50° to +100°C
Ageing: ±5ppm per year max.
Enable/Disable (Tristate): Output is high impedance

when "0" is applied to pad/pin 1. Enable time is 10ms max.

RoHS Status: RoHS Compliant

OUTLINES & DIMENSIONS



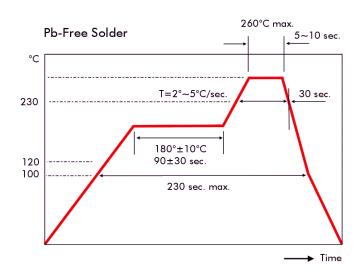
^{*} Temperature Stability from ±10ppm is available. If non-standard temperature stability required add, eg., 'C10' for ±10ppm over commercial temperature range



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SOLDER PROFILE



PART NUMBER FORMAT

