

Series OS265smd (8.0 ~ 120.0)MHz

- # Sine Wave, CMOS output
- # ± 0.02 ppm accuracy
- # Good phase noise
- # RoHS Compliant



Electrical Specification

Case style	Type: OS265smd (25 x 14.6) x 8.95H mm smd		
Frequency range	(8.0 ~ 120.0)MHz		
Output	Sine wave, 0dBm into 50 Ω , CMOS 15pF, (45~55)%		
Stability	From ± 0.02 ppm (temperature range dependent)		
against V_{cc} change	± 0.002 ppm max. $V_{cc} \pm 5\%$		
against load change	± 0.002 ppm max. load $\pm 10\%$		
against short term	± 0.0002 ppm max./day after 30days continuous operation		
against long term	± 0.05 ppm max./day after 30days continuous operation		
i2c programmable trim	± 1.0 ppm typical		
Power supplies	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
start up current (based on +5V unit)		550mA	
quiescent current (based on +5V unit)		<220mA	+25°C
warm up time	2 minutes max. to within ± 0.1 ppm of nominal		
Insulation resistance	500Meg Ω min. 100Vd.c.		
Phase noise (26 MHz device)			
Single sideband	-110dBc/Hz, $f_o + 10$ Hz		
	-140dBc/Hz, $f_o + 100$ Hz		
	-150dBc/Hz, $f_o + 1$ kHz		
Operating temperature	(-20 +60)°C ~ (-40 +70)°C		
Storage temperature	(-40 +125)°C		

Ordering Information

TFC PART NUMBER OS265smd A S V1 - 10.0M
 (1) (2) (3) (4) (5)

1) Type: OS265smd = SMD Type OCXO type OS265smd

2) Temperature tolerance and temp range

A: $\pm 0.02\text{ppm}$ (-20+60) $^{\circ}\text{C}$

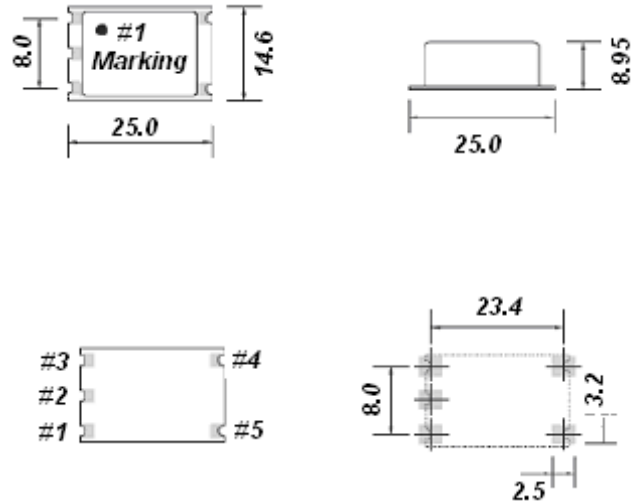
B: $\pm 0.05\text{ppm}$ (-40+70) $^{\circ}\text{C}$

3) Output code : S: Sine wave O/p, L: CMOS 15pF 45~55%

4) Supply voltage: V1: +3.3Vd.c., V2: +5Vd.c., V3: +12Vd.c.

5) Frequency: 10.0M = 10.0MHz,
 frequency range from (8.0 ~ 120.0)MHz

OS265smd dimensions(mm)



Suggested land pattern
 Pad size (2.2 x 2.5)mm

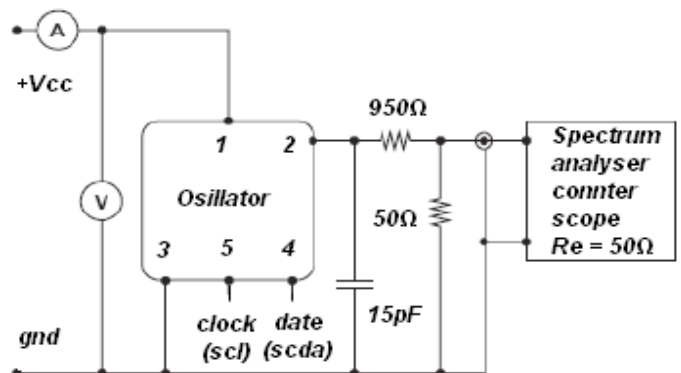
Pin connections

- #1 +Vcc
- #2 outputs
- #3 ground/case
- #4 data (sda)
- #5 clock (scl)

Environmental conditions:

- mechanical shock:** MIL standard 202F, method 213, condition J
- thermal shock:** MIL standard 202F, method 107, condition A
- vibration:** MIL standard 202F, method 204, condition B
- solderability:** 5 seconds max. +230 $^{\circ}\text{C}$
3 seconds max. +350 $^{\circ}\text{C}$
- RoHS:** RoHS Compliant

Test circuit:



Test circuit includes a 20:1 step down into a 50Ω load