DIL OCXO series OS265 - 8.5

- **Subminiature precision OCXO**
- **(3.3 ~ 12)Vd.c. supply**
- **Excellent phase noise**
- **Low power**
- **14 pin DIL(4 pin) case**
- **(10.0 ~ 125.0)MHz**
- **CMOS output**

STANDARD OPTIONS			
frequency range	(10.0 ~ 125.0)MHz		
temperature tolerance	from ±0.005ppm, temperature range dependent		
temp. tolerance - v -temp. range	±0.005ppm(0 +50)°C, ±0.01ppm(-20 +70)°C, ±0.02ppm(-40 +85)°C		
temperature range	(0 +50)°C, (-20 +70)°C, (-40 +85)°C		
output	CMOS 15pf, 45% ~ 55%		
supply voltage	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
start up current at min. temp. range	450mA max.	270mA max.	150mA max.
quiescent current at +25°C	220mA typical	110mA typical	65mA typical
trim range	±0.5ppm min. typical linearity ±5%		
trim input impedance	500megΩ min.		

GENERIC SPECIFICATION	
STABILITY:	
against supply voltage change	±0.002ppm max. for V_{cc} ±5%
against load change	±0.002ppm max. for load ±10%
ageing short term	±0.0005ppm max. per day after 30 days continuous operation
ageing long term	±0.05ppm max. first year
warm up time	1 minute max. to within 0.1ppm of nominal
insulation resistance	500MegΩ min., 100Vd.c.
PHASE NOISE:	
single sideband, 1Hz bandwidth	-123dBc/Hz, f_o+10Hz
	-146dBc/Hz, f_o+100Hz
	-153dBc/Hz, f_o+1kHz
	-160dBc/Hz, f_o+10kHz
	-164dBc/Hz, floor level
storage temperature range	(-55 +125)°C

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. at +230°C, 3 seconds max. at +350°C
marking:	part number and frequency on high temperature metalised polyester label
standard specification:	OS265 - 8.5 A V2 - 10.00M
OS265 - 8.5	= series generic code
A	temp. tol. and temp. range code: A = ±0.005ppm(0 +50)°C
V2	supply voltage code: V2 = +5Vd.c. supply
10.00M	output frequency: 10.00M = 10.000MHz
custom specification:	part number issued with custom specification and drawing
frequency stability	A: ±0.005ppm(0 +50)°C, B: ±0.01ppm(-20 +70)°C, C: ±0.02ppm(-40 +85)°C
supply voltage	V1: +3.3Vd.c., V2: +5Vd.c., V3: +12Vd.c.

CASE DIMENSIONS

12.90
20.50
8.50
6.4

#1 #7
#14 #8
7.62
15.24
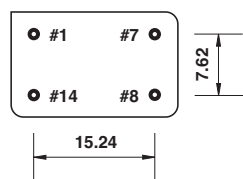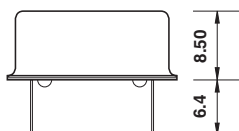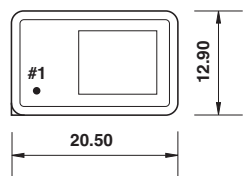
Pins viewed from bottom
pin diameter 0.45mm

Pin connections

#1 tune
#7 ground
#8 output
#14 V_{cc}

TYPICAL PHASE NOISE at 10MHz

Phase Noise 10.00dB/ Ref -20.00dBc/Hz   Carrier 9.999989 MHz   7.1819 dBm

1:	10 Hz	-123.9133 dBc/Hz
2:	100 Hz	-146.2799 dBc/Hz
3:	1 kHz	-153.9623 dBc/Hz
4:	10 kHz	-160.8289 dBc/Hz
>5:	100 kHz	-164.2721 dBc/Hz

IF Gain 50dB   Freq Band [10M-41MHz]   Omit   LO Opt [<150kHz]   517pts   Corre 8