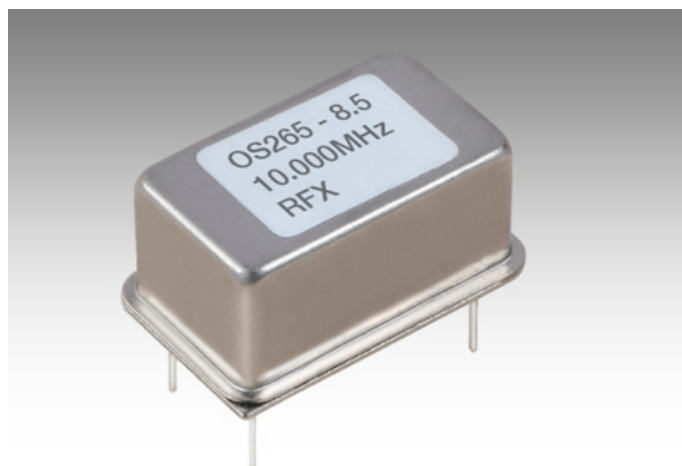




DIL OCXO series OS265 - 8.5

- 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

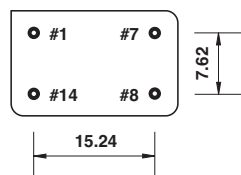
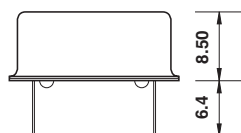
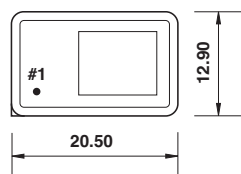


STANDARD OPTIONS			
<i>frequency</i>	(10.0 ~ 125.0)MHz		
<i>temperature tolerance</i>	from ± 0.005 ppm, temperature range dependent		
<i>temp. tolerance - v -temp. range</i>	± 0.005 ppm(0 +50) $^{\circ}$ C, ± 0.01 ppm(-20 +70) $^{\circ}$ C, ± 0.02 ppm(-40 +85) $^{\circ}$ C		
<i>temperature range</i>	(0 +50) $^{\circ}$ C, (-20 +70) $^{\circ}$ C, (-40 +85) $^{\circ}$ C		
<i>output</i>	CMOS 15pf, 45% ~ 55%		
<i>supply voltage</i>	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
<i>start up current at min. temp. range</i>	450mA max.	270mA max.	150mA max.
<i>quiescent current at +25$^{\circ}$C</i>	220mA typical	110mA typical	65mA typical
<i>trim range</i>	± 0.5 ppm min. typical linearity $\pm 5\%$		
<i>trim input impedance</i>	500meg Ω min.		
GENERIC SPECIFICATION			
STABILITY:			
<i>against supply voltage change</i>	± 0.002 ppm max. for $V_{cc} \pm 5\%$		
<i>against load change</i>	± 0.002 ppm max. for load $\pm 10\%$		
<i>ageing short term</i>	± 0.0005 ppm max. per day after 30 days continuous operation		
<i>ageing long term</i>	± 0.05 ppm max. first year		
<i>warm up time</i>	1 minute max. to within 0.1ppm of nominal		
<i>insulation resistance</i>	500Meg Ω min., 100Vd.c.		
PHASE NOISE:			
<i>single sideband, 1Hz bandwidth</i>	-123dBc/Hz, $f_o + 10$ Hz		
	-146dBc/Hz, $f_o + 100$ Hz		
	-153dBc/Hz, $f_o + 1$ kHz		
	-160dBc/Hz, $f_o + 10$ kHz		
	-164dBc/Hz, floor level		
<i>storage temperature range</i>	(-55 +125) $^{\circ}$ 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



Pin connections

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

Pins viewed from bottom
pin diameter 0.45mm

TYPICAL PHASE NOISE at 10MHz

