

Series OA265-10 (10.0 ~ 100)MHz

- # clipped sine wave, CMOS output
- # ± 0.1 ppm accuracy
- # good phase noise
- # very low ageing



Standard options:

frequency range:	_____ (10.0 ~ 100)MHz _____		
accuracy codes:	_____ (A) _____	_____ (B) _____	
temperature tolerance	± 0.1 ppm	± 0.25 ppm	
temperature range	(-10 +60) $^{\circ}$ C	(-20 +70) $^{\circ}$ C	
output codes:	_____ (C) _____	_____ (L) _____	
output	clipped sine wave, 1Vp/p, 1K//10pf harmonics -30dBc max.	CMOS 15pF, 45% ~ 55% <2ns max. rise and fall	
supply voltage codes:	_____ (V1) _____	_____ (V2) _____	_____ (V3) _____
supply voltage	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.

Generic specification:

stability:			
against supply voltage change		± 0.02 ppm max. for $V_{CC} \pm 5\%$	
against load change		± 0.02 ppm max. for load $\pm 10\%$	
ageing short term		± 0.005 ppm max. per day	
ageing long term		after 30 days continuous operation	
voltage trim V_t		± 1.5 ppm max. first year	
trim input impedance		± 10 ppm min. typical, linearity $\pm 5\%$	
		100K Ω min.	
power supplies:			
supply voltage V_{CC}	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
start up current at min. temp. range	900mA max.	600mA max.	300mA max.
quiescent current at max. temp. range	320mA max.	220mA max.	120mA max.
warm up time	5 minutes max. to within 0.1ppm of nominal		
insulation resistance	500Meg Ω min., 100Vd.c.		
phase noise:			
single sideband, 1Hz bandwidth		-80dBc/Hz, $f_o + 10$ Hz	
		-100dBc/Hz, $f_o + 100$ Hz	
		-125dBc/Hz, $f_o + 1$ kHz	
temperature:			
operating range	(-10 +60) $^{\circ}$ C	(-20 +70) $^{\circ}$ C	
storage range	(-40 +125) $^{\circ}$ C	(-40 +125) $^{\circ}$ C	

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Environmental test conditions (on request):

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:

frequency, date code, serial number on high temperature metalised polyester label

Ordering code:

standard specification: OA265-10 A C V2 - 10.00M

OA265-10 = series generic code

A temp. tol. and temp. range code: A = $\pm 0.3\text{ppm}(-10 +60)^\circ\text{C}$

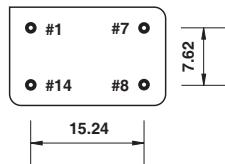
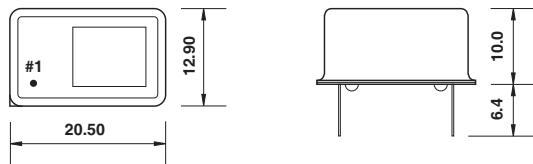
C output code: C = clipped sine wave, 1Vp/p, 1K//10pf

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

Dimensions(mm):

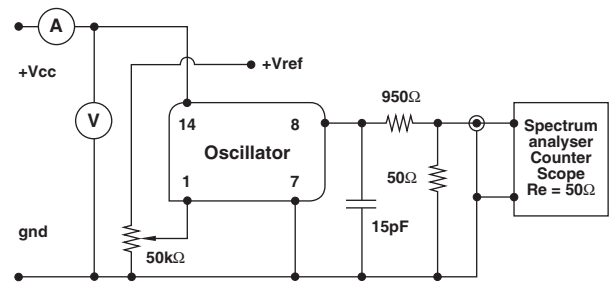


Pins viewed from bottom
pin diameter 0.45mm

Pin connections:

- #1 trim
- #7 ground/case
- #8 output
- #14 +V_{CC}

Test circuit:



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