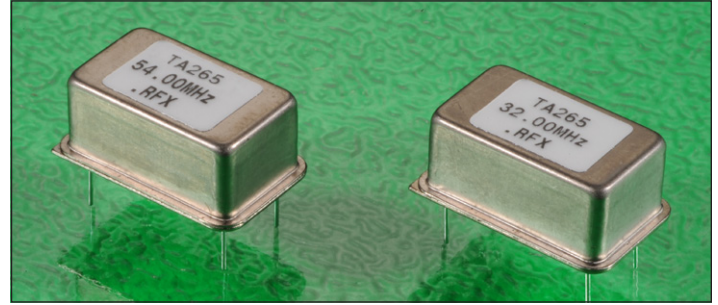


±0.5ppm, excellent phase noise, low ageing.

A miniature 14 pin DIL resistance weld package, 8.5mm tall, manufactured to standard and custom specifications over the frequency range of 10MHz to 250MHz.

Precision crystals provide outstanding long term ageing from ±4.6ppm over 10 years.



Standard options:

frequency range:	_____ (10 ~ 250)MHz _____		
accuracy codes:	(A)	(B)	(C)
temperature tolerance	±1.0ppm	±1.5ppm	±2.0ppm
temperature range	(-10 +60)°C	(-20 +70)°C	(-35 +70)°C
output codes:	(S)	(L)	
output	sine wave, 0dBm into 50Ω 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	±0.02ppm max. for $V_{cc} \pm 5\%$		
against load change	±0.02ppm max. for load ±10%		
ageing short term	±0.005ppm max. per day		
	after 30 days continuous operation		
ageing long term	±1.5ppm max. first year		
voltage trim V_t	±10ppm min. typical, linearity ±5%		
trim input impedance	100KΩ min.		
power supplies:			
supply voltage V_{cc}	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
supply current	50mA max. frequency dependent		
insulation resistance	500MegΩ min., 100Vd.c.		
phase noise:			
single sideband, 1Hz bandwidth	-80dBc/Hz, $f_o + 10\text{Hz}$		
	-100dBc/Hz, $f_o + 100\text{Hz}$		
	-125dBc/Hz, $f_o + 1\text{kHz}$		
temperature:			
operating range	(-10 +60)°C	(-20 +70)°C	(-35 +70)°C
storage range	(-40 +125)°C	(-40 +125)°C	(-40 +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

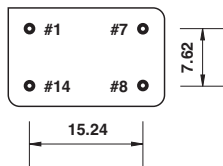
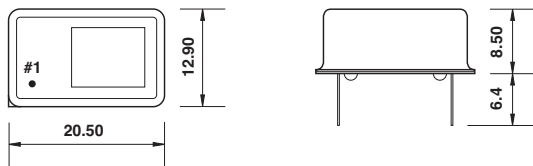
Marking: part number and frequency on high temperature metalised polyester label

Ordering code:

standard specification: TA265-8.5 A S V2 - 18.432M
 TA265-8.5 = series generic code
A temp. tol. and temp. range code: A = ±1.0ppm(-10 +60)°C
S output code: S = sine wave output, 0dBm into 50Ω
V2 supply voltage code: V2 = +5Vd.c. supply
18.432M output frequency: 18.432M = 18.432MHz

Custom specification: part number issued with custom specification and drawing

Dimensions(mm):

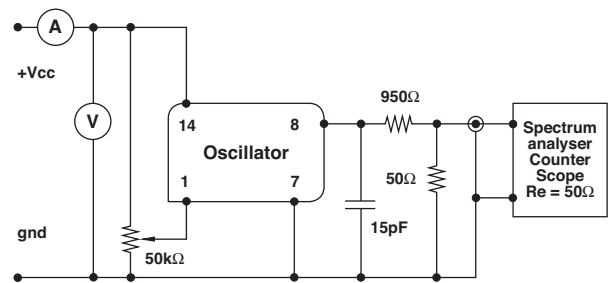


Pins viewed from bottom
pin diameter 0.45mm

Pin connections:

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

Test circuit, CMOS load:



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