LAPTECH PRECISION

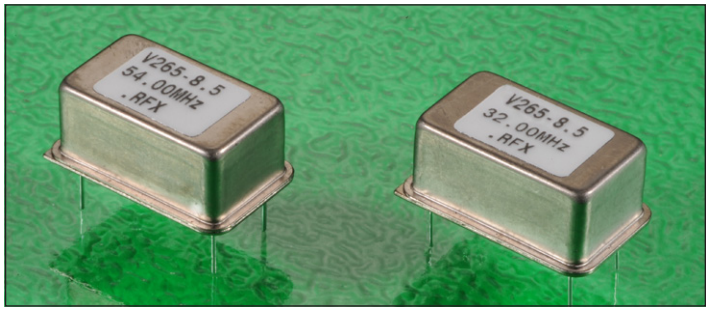
VCXO series V265-8.5

Wide pulling range with good linearity and low ageing.

14 pin DIL resistance weld package, 8.5mm height.

Sine wave or CMOS output.

Standard and custom specifications over the frequency range 10MHz to 250MHz.



Standard options:

frequency range:	*(10 ~ 250)MHz*		
accuracy codes:	*(A)*		*(B)*
temperature tolerance	*±10ppm*		*±20ppm*
temperature range	*(0 +50)°C*		*(-20 +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.*
control voltage V_c	*(+1.5 ±1.5)Vd.c.*	*(+2.25 ±2.25)Vd.c.*	*(+2.25 ±2.25)Vd.c.*
voltage control range	*±100ppm max.**	*±200ppm max.**	*±300ppm max.**

**control range is frequency dependent*

Generic specification:

stability:			
ageing long term	*±2ppm max. first year*		
control range linearity	*±10%*		
control voltage input impedance	*100KΩ min.*		
power supplies:			
supply current	*50mA max. frequency dependent*		
insulation resistance	*500MegΩ min., 100Vd.c.*		
temperature:			
operating range	*(0 +50)°C*		*(-20 +70)°C*
storage range	*(-40 +125)°C*		*(-40 +125)°C*

Telephone: (905) 623 4101, Fax: (905) 623 3886
e-mail: sales@laptech.com website: www.laptech.com

ISO9001: 2008
A1511CAN

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

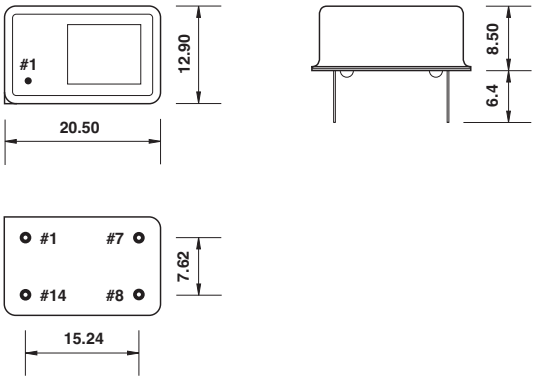
Ordering code:

standard specification:	***V265-8.5 A S V2 - 155.52M***
V265-8.5	***= series generic code***
A	*temp. tol. and temp. range code:* ***A = ±10ppm(0 +50)°C***
S	*output code:* ***S = sine wave output, 0dBm into 50Ω***
V2	*supply voltage code:* ***V2 = +5Vd.c. supply***
155.52M	*output frequency:* ***155.52M = 155.52MHz***

Custom specification:

part number issued with custom specification and drawing

Dimensions(mm):

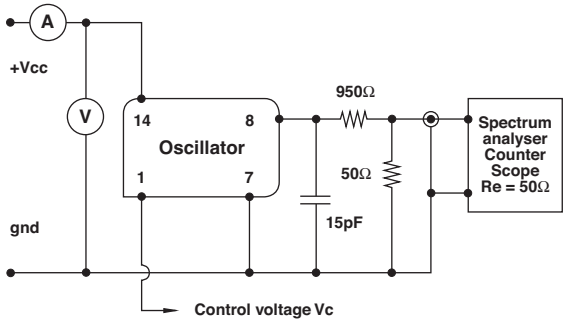


Pins viewed from bottom
pin diameter 0.45mm

Pin connections:

#1	*control voltage V_c*
#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

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