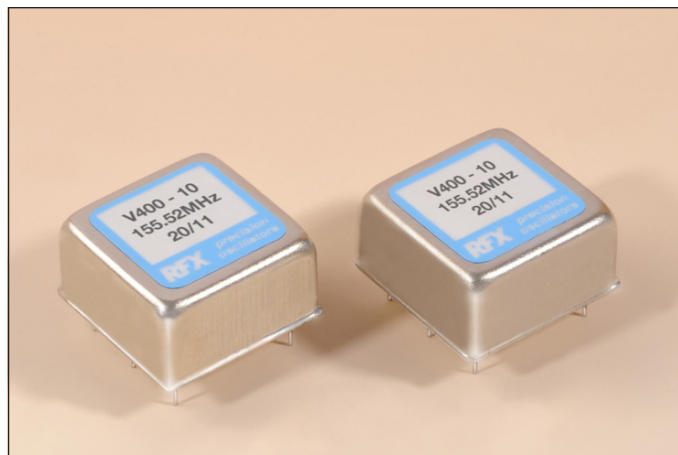


### VCXO V400 - 10

- **Very wide frequency range, large pulling range with good linearity and low ageing.**
- **Hermetically sealed package, 10mm height.**
- **Sine wave or CMOS output.**
- **Standard and custom specifications over the frequency range 10MHz to 1GHz.**



#### Standard options:

<b>frequency range:</b>	_____ 10MHz ~ 1GHz _____		
<b>accuracy codes:</b>	(A)	(B)	
temperature tolerance	±10ppm	±20ppm	
temperature range	(0 +50)°C	(-20 +70)°C	
<b>output codes:</b>	(S)	(L)	
output	sine wave, 0dBm into 50Ω harmonics -30dBc max.	CMOS 15pF, 45% ~ 55% <2ns max. rise and fall	
<b>supply voltage codes:</b>	(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:

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

**Environmental conditions:**

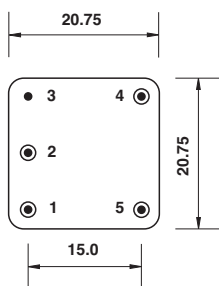
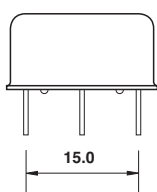
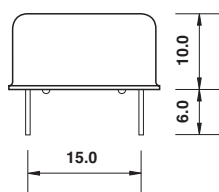
**mechanical shock:** MIL standard 202F, method 213, condition J  
**thermal shock:** MIL standard 202F, method 107, condition A  
**vibration:** MIL standard 202F, method 204, condition B  
**solderability:** 5 seconds max. at +230°C, 3 seconds max. at +350°C

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

**Ordering code:**

**standard specification:** **V400-10 A S V2 - 155.52M**  
**V400-10** = 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**

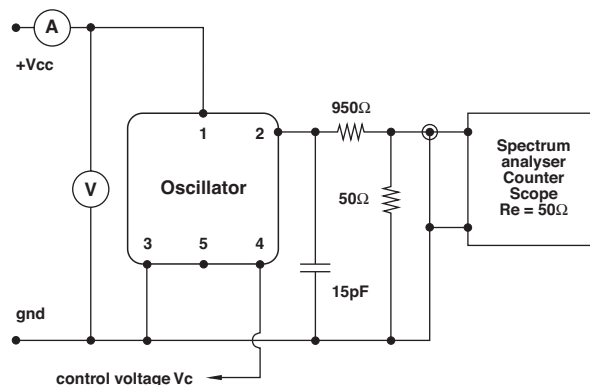
**Custom specification:** part number issued with custom specification and drawing

**Dimensions(mm):**


Pins viewed from bottom  
pin diameter 0.45mm

**Pin connections:**

# 1 +V<sub>cc</sub>  
 # 2 output  
 # 3 ground/case  
 # 4 control voltage V<sub>c</sub>  
 # 5 n.c.

**Test circuit, CMOS load:**


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