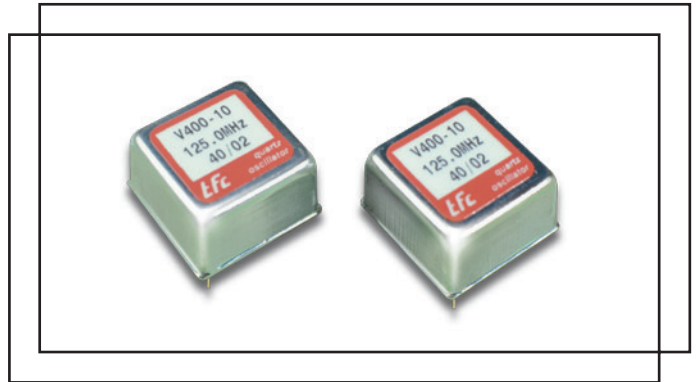


## Series V400-10 10.0MHz ~ 1GHz

- # wide pulling range
- # good linearity
- # hermetic seal
- # sinewave, CMOS



### Standard options:

<b>frequency range:</b>	10.0MHz ~ 1GHz		
<b>accuracy codes:</b>	(A)	(B)	
temperature tolerance	±10.0ppm	±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
storage range	(-40 +125)°C
	(-20 +70)°C
	(-40 +125)°C

## Series V400-10

### 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:

frequency, date code, serial number 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 =  $\pm 10\text{ppm}(0 +50)^\circ\text{C}$

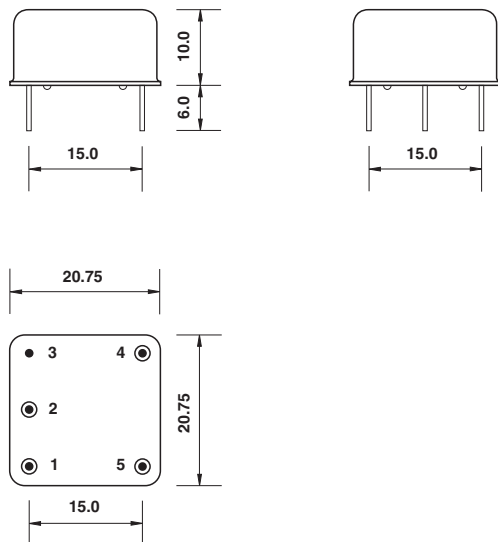
S output code: S = sine wave output, 0dBm into 50Ω

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):

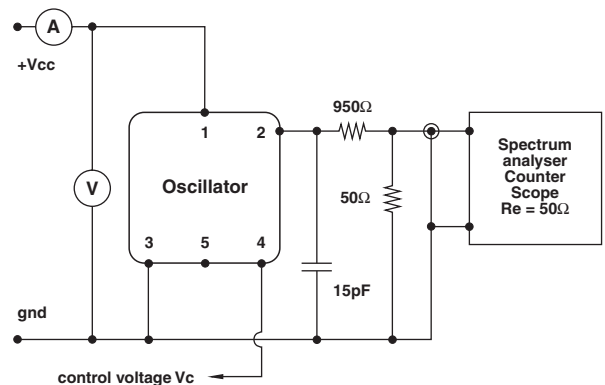


Pins viewed from bottom  
pin diameter 0.45mm

### Pin connections:

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

### Test circuit:



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