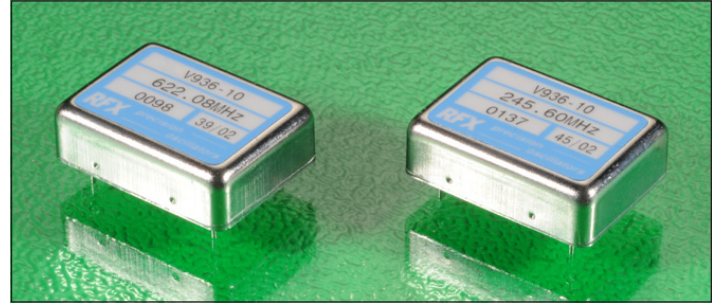**Extremely wide frequency range, large pulling range with excellent linearity and low ageing.**

Hermetically sealed case, 10mm height.

Sine wave or CMOS output.

Standard and custom specifications over the frequency range 1MHz to 1GHz.

Standard options:

frequency range:	1MHz ~ 1GHz	

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	CMOS 15pF, 45% ~ 55%
	harmonics -30dBc max.	<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

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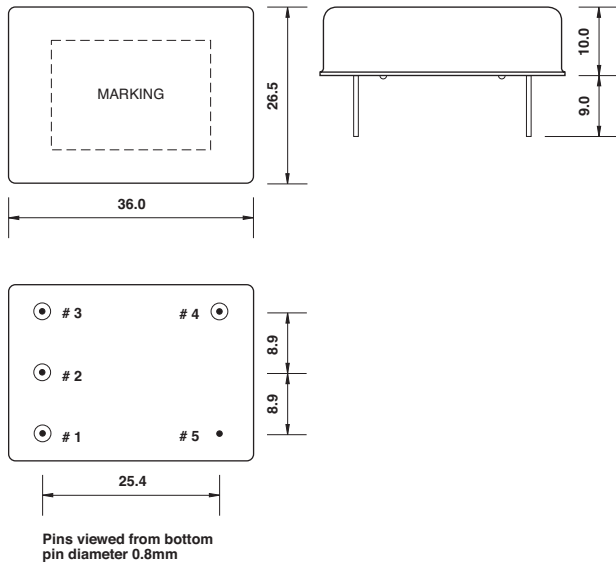
Marking: *part number and frequency on high temperature metalised polyester label*

Ordering code:

standard specification: **V936-10 A S V2 - 155.52M**
V936-10 *= 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**

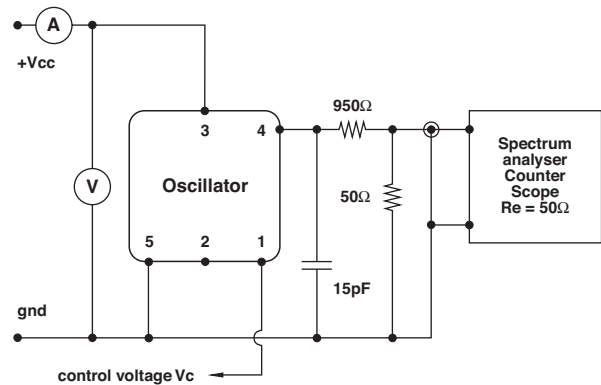**Custom specification:** *part number issued with custom specification and drawing*

Dimensions(mm):

MARKING

26.5
36.0
10.0
9.0

3   # 4
2
1   # 5

8.9
8.9
25.4

**Pins viewed from bottom
pin diameter 0.8mm**

Pin connections:

1 control voltage V_c
2 n.c.
3 $+V_{cc}$
4 output
5 ground

Test circuit, CMOS load:

A
+Vcc

3   4   950Ω
Oscillator
V
5   2   1   50Ω
15pF

Spectrum
analyser
Counter
Scope
Re = 50Ω

gnd

control voltage Vc

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

ISO9001: 2008
A1511CAN