Custom specification OXO214-1000-007

- Optimised performance 10.00MHz DIL OCXO
- temperature tolerance: ±0.2ppm(-40 +70)°C
- phase noise: -150dBc/Hz, f_0 +100KHz
- supply +3.3V d.c.
- quiescent current: 250mA max.
- RoHS compliant

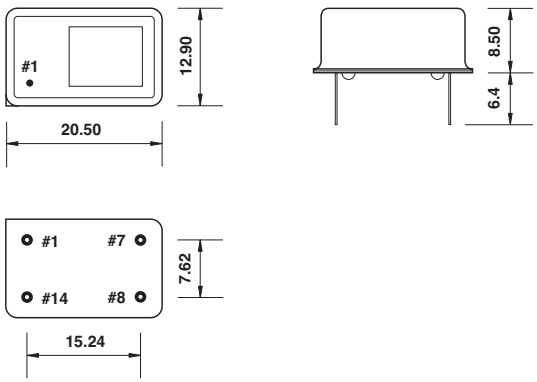
Custom specification:

frequency:	10.000MHz
temperature tolerance:	±0.2ppm(-40 +70)°C
output:	CMOS 15pF, 45% ~ 55%
	<2ns max. rise and fall
supply voltage:	+3.3Vd.c.

Generic specification:

stability:	
against V_{cc} change	±0.02ppm max. for V_{cc} ±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	±1.0ppm max. first year after 30 days continuous operation
voltage trim V_t	±10ppm min. typical linearity ±5%
trim input impedance	100KΩ min.
power supplies:	
supply voltage V_{cc}	+3.3Vd.c.
start up current	500mA max. at -40°C
quiescent current	250mA max. at +70°C
warm up time	5 minutes max. to within 0.1ppm of nominal
insulation resistance	500MegΩ min., 100Vd.c.
phase noise:	-90dBc/Hz, f_o+10Hz
	-120dBc/Hz, f_o+100Hz
	-135dBc/Hz, f_o+1kHz
	-140dBc/Hz, f_o+10kHz
	-150dBc/Hz, f_o+100kHz
temperature:	
operating range	(-40 +70)°C
storage range	(-40 +125)°C

Dimensions(mm):

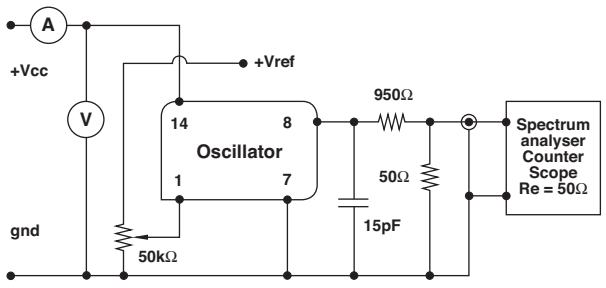


Pins viewed from bottom
pin diameter 0.45mm

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

Telephone: +44 (0)1506 439 222, e-mail: sales@rfx.co.uk