Low phase noise frequency standard, frequency range 1MHz to 1GHz

(-40 +85)°C operating temperature

sine wave output, 0dBm into 50Ω, harmonics -25dBc

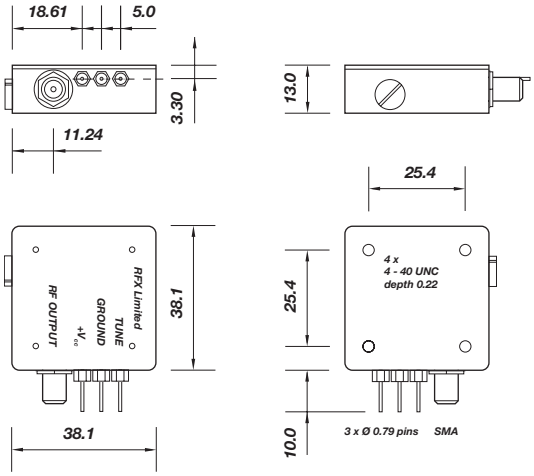
Hermetically sealed case, 13mm height

h.f. Communications equipment, system synchronisation, precision reference

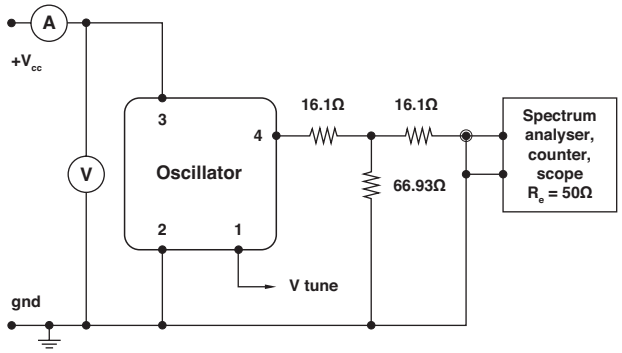
Generic specification:

Stability:	
over temperature	*from ±0.01ppm(-40 +85)°C, custom specified*
against V_{cc} change	*±0.001ppm max., V_{cc} ±5%*
against load change	*±0.001ppm max., load ±10%*
ageing short term	*±0.0003ppm max./day after 30 days continuous operation*
ageing long term	*from ±0.12ppm max./ year after 30 days continuous operation*
short term stability, 1sec.	*±0.0005ppm max.*
electronic trim	*±1.0ppm typical +2.5Vd.c. ±2.5V, 10% linearity*
Output:	*sine wave, +0dBm min. into 50Ω, harmonics -25dBc*
Power supplies:	
supply voltage	*+12Vd.c. ±5%*
start up current	*350mA max.*
quiescent current	*150mA max. at +25°C*
warm up time	*5 minutes max. to within ±0.1ppm of nominal*
Phase noise:	
single sideband, 1Hz bandwidth	*-115dBc/Hz, f_o +10Hz* *-142dBc/Hz, f_o +100Hz* *-155dBc/Hz, f_o +1kHz* *-160dBc/Hz, f_o +10kHz*
Jitter:	*<1ps*
Temperature:	
operating range	*(-40 +85)°C*
storage range	*(-55 +125)°C*
Insulation resistance:	*500MΩ min., 100Vd.c.*
Marking:	*part number, frequency, date code, serial number*

Dimensions(mm):



Test circuit:



test circuit includes 6dB pad into 50Ω load

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