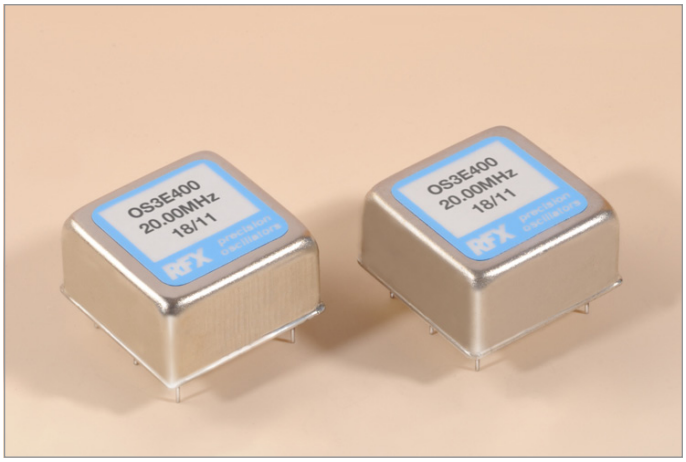
OCXO OS3E400 - 10

- ***Stratum 3E compliant; long term and 24 hour holdover to Stratum 3E levels specified in GR-1244-CORE issue 2 and GR-63-CORE issue 1.***
- ***High quality, excellent phase noise, extremely low ageing from a precision SC cut resonator.***
- ***Hermetic seal.***
- ***Manufactured to standard and custom frequencies 5.0Mz to 50MHz.***



Standard options:

frequency range: *(5.0 ~ 50.0)MHz*

supply voltage codes:	*(V1)**	*(V2)**	*(V3)**
supply voltage	*+3.3Vd.c.*	*+5.0Vd.c.*	*+12.0Vd.c.*
*trim reference option**	*+3.0Vd.c.*	*+4.5Vd.c.*	*+4.5Vd.c.*

** add suffix (R) for V_{ref} output on pin #5*

Generic specification:

output: *CMOS 15pF, 45% ~ 55%*
rise and fall time 2ns max.

stability:

against temperature change	*±0.0085ppm(0 +70)°C*
stratum 3E compliant	*long term and 24 hour holdover requirements of Stratum 3E levels specified in GR-1244-CORE issue 2 and GR-63-CORE issue 1*
against supply voltage change	*±0.002ppm max. for V_{cc} ±5%*
against load change	*±0.002ppm max. for load ±10%*
ageing short term	*±0.0005ppm max. per day after 30 days continuous operation*
ageing long term	*±0.05ppm max. first year*
voltage trim V_t	*±0.5ppm min. typical, linearity ±5%*
trim input impedance	*100KΩ min.*

power supplies:

supply voltage V_{cc}	*+3.3Vd.c.*	*+5.0Vd.c.*	*+12.0Vd.c.*
start up current at min. temp. range	*900mA max.*	*600mA max.*	*300mA max.*
quiescent current at max. temp. range	*320mA max.*	*220mA max.*	*120mA max.*
warm up time	*5 minutes max. to within 0.1ppm of nominal*		
insulation resistance	*500MegΩ min., 100Vd.c.*		

phase noise:
single sideband, 1Hz bandwidth
-130dBc/Hz, f_o+10Hz
-155dBc/Hz, f_o+100Hz
-160dBc/Hz, f_o+1kHz

temperature:

operating range	*(0 +70)°C*
storage range	*(-40 +125)°C*

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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, frequency and serial number on high temperature metalised polyester label

Custom specification:

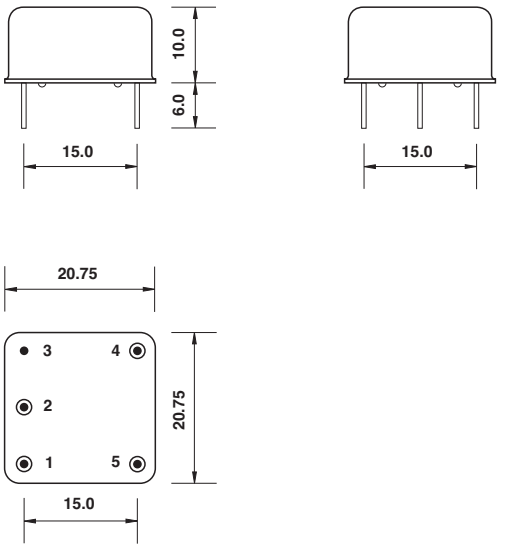
part number issued with custom specification and drawing

Ordering code:

standard option:	***OS3E400-10-V2* - 10.00M***
OS3E400-10	***= series generic code***
V2*	*supply voltage code:* ***V2 = +5Vd.c. supply***
	**Add suffix (R) for V_{ref} output on pin #5*
10.00M	*output frequency:* ***10.00M = 10.000MHz***

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

Dimensions(mm):

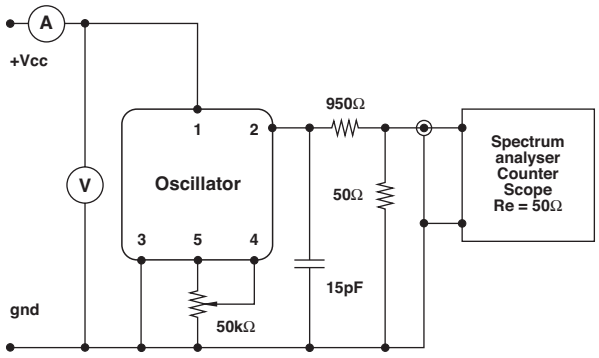


Pins viewed from bottom
pin diameter 0.45mm

Pin connections:

# 1	*+V_{cc}*
# 2	*output*
# 3	*ground/case*
# 4	*trim*
# 5	*n.c. or trim reference voltage**

Test circuit, CMOS load:



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

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