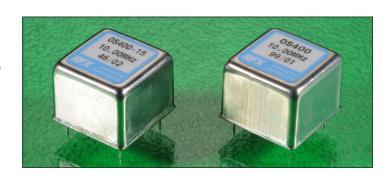


±0.005ppm stability, excellent phase noise.

A small high quality OCXO combining minimum volume and an excellent specification from a precision SC cut resonator.

Manufactured to standard and custom frequencies 5.0Mz to 50MHz.

Ageing from ±0.1ppm first year.



requency range:	(5 ~ 50)MHz		
accuracy codes:	(A)	(B)	
temperature tolerance	±0.005ppm	±0.01ppm	±0.02ppm
temperature range	(0 +50)°C	(-10 +60)°C	(-20 +70)°C
output codes:	(S)		(L)
output	sine wave, 0dBm into 5	0Ω	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.
trim reference option*	+3.0Vd.c.	+4.5Vd.c.	+4.5Vd.c.
·	* add suffix (R) for V_{ref} output on pin #5		
eric specification:			
stability:			
against supply voltage change	± 0.002 ppm max. for $V_{\odot}\pm 5\%$		
against load change	±0.002ppm max. for load ±10%		
ageing short term	±0.0005ppm max. per day		
	after 30 days continuous op	eration	
ageing long term	±0.1ppm max. first year		
voltage trim V,	±0.5ppm min. typical, linearity ±5%		
trim input impedance	100KΩ min.		
power supplies:			
supply voltage V	+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. rar	nge 320mA max.	220mA max.	120mA max.
warm up time	5 minutes	max. to within 0.1pp	m of nominal
insulation resistance	500Meg $Ω$ min., 100 Vd.c.		
phase noise:			
single sideband, 1Hz bandwidth		-110dBc/Hz, f ₀ +10Hz	Z
		-135dBc/Hz, f +100H	
		-155dBc/Hz, f +1kHz	
temperature:		. 0	
operating range	(0 +50)°C	(-10 +60)°C (-40 +125)°C	(-20 +70)°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

standard specification: OS400-15 A S V2* - 10.00M

OS400-15 = series generic code

A temp. tol. and temp. range code: $A = \pm 0.005 ppm(0 + 50)$ °C output code: S = sine wave output, 0dBm into 50Ω

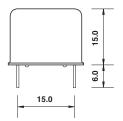
V2* supply voltage code: **V2** = +5Vd.c. supply

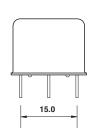
*add suffix (R) for V_{ref} output on pin #5

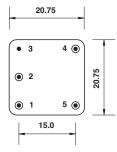
10.00M output frequency: **10.00M** = **10.000MHz**

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}

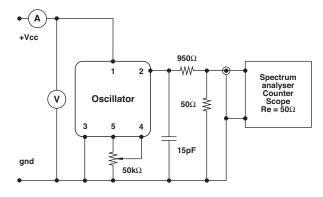
#2 output

#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