

Г

Stability from ±0.005ppm, excellent phase noise from precision SC cut crystal.

Standard and custom frequency range 1MHz to 125MHz.

Ageing from ±0.1ppm first year.

A standard OCXO package providing a large volume and the finest single oven specifications.



frequency range:	(1.0 ~ 125)MHz			
accuracy codes:	(A)	<del>(B)</del>	(C)	
temperature tolerance				
temperature range	(0 +50)°C	±0.01ppm (-10 +60)°C	(-20 +70)°C	
output codes:	<i>(S)</i>		(L)	
output	(S) (L) (L) 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. +4.5Vd.c.	+12.0Vd.c.	
trim reference option*				
	* add su	ffix (R) for V <sub>ref</sub> output o	on pin #5	
eric specification:				
stability:				
against supply voltage change	$\pm 0.002$ ppm max. for V $_{cc}$ $\pm 5\%$			
against load change	$\pm 0.002$ ppm max. for load $\pm 10\%$			
aging short term	±0	0.0005ppm max. per d	lay	
	after 30 days continuous op	eration		
aging long term	±0.1ppm max. first year			
voltage trim V <sub>t</sub>	±0.5ppm min. typical, linearity ±5%			
trim input impedance	100KΩ min.			
power supplies:				
supply voltage $V_{cc}$		+5.0Vd.c.		
start up current at min. temp. range		600mA max.		
quiescent current at max. temp. ran		220mA max.		
warm up time		max. to within 0.1ppn		
insulation resistance	5	00Meg $\Omega$ min., 100Vd.	С.	
phase noise:				
single sideband, 1Hz bandwidth	-110dBc/Hz, f_+10Hz			
		-135dBc/Hz, f +100Hz	Ζ	
		-155dBc/Hz, Ĭ,+1kHz		
1 · · · · · · · · · · · · · · · · · · ·		ŭ		
temperature:				
operating range		(-10 +60)°C (-40 +125)°C		





Environmental conditions:			
mechanical shock:	MIL standard 202F, method 213, condition J		
thermal shock: vibration:	MIL standard 202F, method 107, condition A 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: OS936-15 A S V2* - 10.00M		
OS936-15 A	= series generic code temp. tol. and temp. range code: A = ±0.005ppm(0 +50)°C		
S	output code: $S = sine wave output, 0dBm into 50\Omega$		
V2*	supply voltage code: V2 = +5Vd.c. supply		
*add suffix (R) for V <sub>ref</sub> output on pin #2 <b>10.00M</b>	output frequenc: 10.00M = 10.000MHz		
Custom specification:	part number issued with custom specification and drawing		







test circuit includes a 20:1 step down into a matched 50 $\Omega$  load

