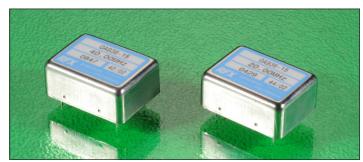


Stability from ±0.05ppm, good phase noise from a precision AT cut crystal.

Standard and custom frequency range 1MHz to 1GHz.

Ageing from ±1ppm first year.

A standard OCXO package providing a useful volume for the manufacture of high quality single oven specifications.



ndard options:			
frequency range:	1MHz ~ 1GHz ————————————————————————————————————		
accuracy codes:	(A)	(B)	(C)
temperature tolerance	±0.05ppm	±0.1ppm	±0.2ppm
temperature range	(0 +50)°C	(-10 +60)°C	(-20 +70)°C
output codes:	(S)		(L)
output s	ine wave, ÒdBm into 5	'0Ω C	——— (L) ———— CMOS 15pF, 45% ~ 55%
harmonics -30dBc max.	<2ns max. rise and fall		
supply voltage codes:	(V1)*	(V2)*	(V3)*
supply voltage		+5.0Vd.c.	
voltage reference option*		+4.5Vd.c.	
	*add su	ffix (R) for V _{ref} output (on pin #2
neric specification:			
stability:			
against supply voltage change	± 0.02 ppm max. for V_{cc} $\pm 5\%$		
against load change	±0.02ppm max. for load ±10%		
ageing short term		0.005ppm max. per d	lay
	30 days continuous op		
ageing long term	±1ppm max. first year		
voltage trim V_t	±10ppm 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	900mA max.	600mA max.	300mA max.
quiescent current at max. temp. range	320mA max.		120mA max.
warm up time	5 minutes	max. to within 0.1ppi	m of nominal
insulation resistance	500MegΩ min., 100Vd.c.		

(0 +50)°C

(-40 +125)°C

-90dBc/Hz, f_o+10Hz -125dBc/Hz, f_o+100Hz -140dBc/Hz, f_o+1kHz

(-10 +60)°C

(-40 +125)°C

(-20 +70)°C

(-40 +125)°C

ISO9001: 2008 A1511CAN (150 0001)2008 REGISTERED FIRST

single sideband, 1Hz bandwidth

temperature:

storage range

operating range





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

Ordering code: standard specification: OA936-15 A S V2* - 10.00M

OA936-15 = series generic code

A temp. tol. and temp. range code: $A = \pm 0.05 ppm(0 + 50)^{\circ}C$ S output code: $S = sine wave output, 0dBm into <math>50\Omega$

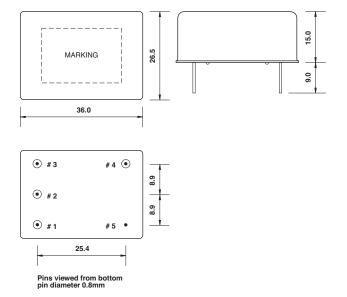
V2* supply voltage code: V2 = +5Vd.c. supply

*add suffix (R) for V_{ref} output on pin #2

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

Custom specification: part number issued with custom specification and drawing

Dimensions(mm):



Pin connections:

#1 trim

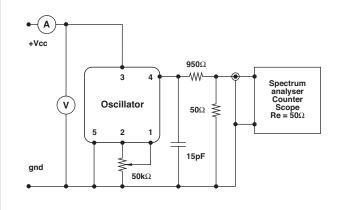
#2 n.c. or trim reference voltage*

#3 $+V_{cc}$

#4 output

#5 ground/case

Test circuit, CMOS load:



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

