# <u>Efc</u>

## OCXO series OS936 - 10 March 29th 2012

## OCXO OS936 - 10

- Stability from ±0.005ppm, excellent phase noise from precision SC cut crystal.
- Standard and custom frequency range 1MHz to 125MHz.
- Ageing from ±0.05ppm first year.
- A standard OCXO package providing a large volume and the finest single oven specifications.



### Standard options:

frequency range:		(1.0 ~ 125)MHz			
accuracy codes:	<i>(A)</i>	<i>(B)</i>	<i>(C)</i>		
temperature tolerance	±0.005ppm	±0.01ppm	±0.02ppm		
temperature range	(0 +50)°C	±0.01ppm (-10 +60)°C	(-20 +70)°C		
output codes:	<i>(S)</i>		(L)		
output	(S) (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		+5.0Vd.c.			
trim reference option*	+3.0Vd.c.	+4.5Vd.c.	+4.5Vd.c.		
	* add suffix (R) for V <sub>ref</sub> output on pin #5				
Generic specification:					
stability:					
against supply voltage change	±0.0	02ppm max. for $V_{cc}$	±5%		
against load change	$\pm 0.002$ ppm max. for load $\pm 10\%$				
aging short term		±0.0005ppm max. per day			
		days continuous o			
aging long term	±0.05ppm 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 <sub>cc</sub>		+5.0Vd.c.			
start up current at min. temp. ran		600mA max.			
quiescent current at max. temp. r	0	220mA max.			
warm up time	5 minutes max. to within 0.1ppm of nominal				
insulation resistance	$500Meg\Omega$ min., $100Vd.c.$				
phase noise:					
single sideband, 1Hz bandwidth	-130dBc/Hz, f <sub>o</sub> +10Hz				
	- 1	-155dBc/Hz, f +100Hz			
	-160dBc/Hz, f +1kHz				
temperature:		č			
operating range	(0 +50)°C	(-10 +60)°C	(-20 +70)°C		
storage range	(-40 +125)°C	(-40 +125)°C	(-40 +125)°C		

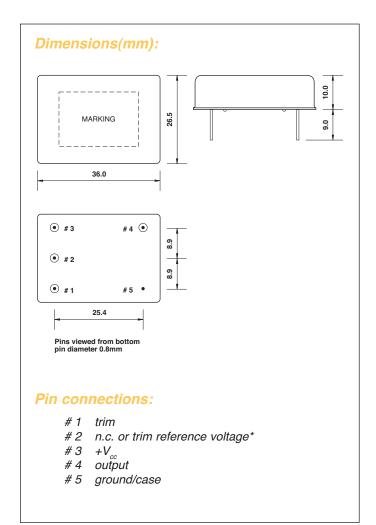
Updated April 20th 2011

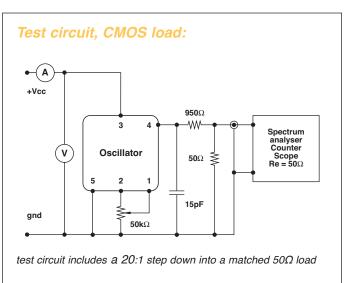


#### **Environmental conditions:**

mechanical shock: thermal shock: vibration: solderability:	MIL standard 202F, method 213, condition J MIL standard 202F, method 107, condition A MIL standard 202F, method 204, condition B 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: 0S936-10 A S V2* 10.00M	standard specification: OS936-10 A S V2* - 10.00M = series generic code temp. tol. and temp. range code: A = ±0.005ppm(0 +50)°C output code: S = sine wave output, 0dBm into 50Ω supply voltage code: V2 = +5Vd.c. supply *add suffix (R) for V <sub>ref</sub> output on pin #2 output frequenc: 10.00M = 10.000MHz

Custom specification: part number issued with custom specification and drawing





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