


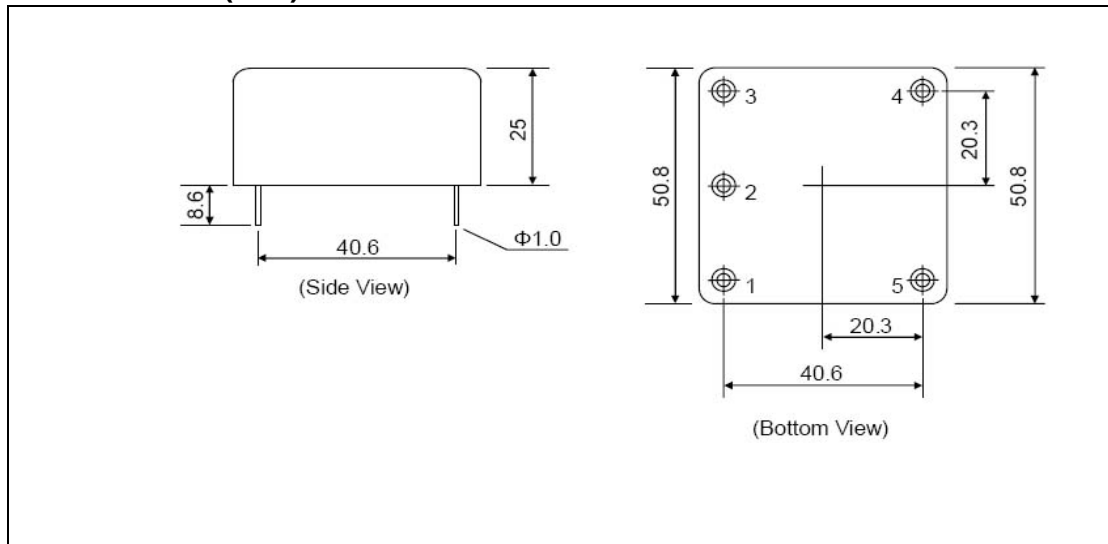
Crystal Oscillator Series	Stability up to $\pm 0.005 \times 10^{-6}$ Low Aging Compact Package	PCS Base Stations Cellular Base Stations Synthesizer Measure Equipment Digital Switching	
OC-50			

Electrical Specifications

Parameter		OC50				
Frequency Range	Fo	1.000 MHz~100.000 MHz				
Standard Frequency(MHz)	Fo	4.096	5	8.192	10	16.384 20
Frequency Accuracy		± 0.1 PPM(center control voltage)				
Supply Voltage	VDD	B:+5.0VDC $\pm 10\%$		C:+12.0VDC $\pm 10\%$		
Supply Consumption	Warming State	5W Max				
	Steady State	2W Max (at 25)				
Output Load		A: TTL 15pF B: TTL 50pF	C: CMOS 15pF D: CMOS 50pF		G: Sine Wave	
Output Duty		45%~55%			—	
Control Voltage Range		M= $\pm 1 \times 10^{-6}$ (Machine Adjust)				
		V= $\pm 1 \times 10^{-6}$ (Voltage Adjust)				
Frequency Stability Vs	Temperature Range	$\pm 3 \times 10^{-8}$ (reference to frequency at 25 VDD $\pm 5\%$)				
	Power Supply	$\pm 1 \times 10^{-8}$ (VDD $\pm 5\%$)				
	Load	$\pm 1 \times 10^{-8}$ (5% change from 50)				
	Warm up Time	< 7min (to be within $\pm 10^{-8} \times F_o$, Fo Refers to Frequency after 1h operation)				
Rise Time/Fall Time	Tr/Tf	10nS Max			—	
Output Level	“0”Level VOL	0.4V Max	10%VDD		> 0dBm//50	
	“1”Level VOH	2.4V Min	90%VDD			
Storage Temperature Range	TSTG	-40 ~+100				
Aging (After 30 days ,at+25)		B: $\pm 5 \times 10^{-9}$ /day / $\pm 5 \times 10^{-7}$ /year / $\pm 3 \times 10^{-6}$ /10 year C: $\pm 1 \times 10^{-9}$ /day / $\pm 1 \times 10^{-7}$ /year / $\pm 1 \times 10^{-6}$ /10 year				
Phase Noise (at 10MHz)		1 Hz	10Hz	100Hz	1KHz	10KHz
		-80dBc/Hz	-120dBc/Hz	-140dBc/Hz	-145dBc/Hz	-150dBc/Hz
Internal Reference Voltage		4V ± 0.08 (VDD=5V)		8V ± 0.16 (VDD=12V)		
Slope and Linearity		Positive / $\pm 10\%$				

Temperature Range	Frequency Stability				
	A: $\pm 5 \times 10^{-9}$	B: $\pm 1 \times 10^{-8}$	D: $\pm 5 \times 10^{-8}$	E: $\pm 1 \times 10^{-7}$	H: $\pm 5 \times 10^{-7}$
A:0 ~ +50					
B:-10 ~ +60					
C:-20 ~ +70					
E:-40 ~ +75					

Dimensions (mm)



PIN	FUNCTION
#1	Control Voltage
#2	Reference Voltage /NC
#3	Output
#4	GND
#5	+DC

Ordering Information

O	C	Type	Output Load	xx.xxxx	M	Supply Voltage	Stability Vs.Temp	Operating Temp	Control voltage range	option
O: OCXO		50DIP	See table	Center frequency	M	B:5V	See table	See table	See table	F:Lead Free
	C:control			10 to 100 MHz	MHz	C:12V				T:T&P Blank:Bulk
Example:OC50DIPA10MBDAMF (OCXO,DIP26 , TTL 15pF ,10MHZ,B:5V,D: $\pm 5 \times 10^{-8}$, A:0 ~ +50 , M : => $\pm 1 \times 10^{-6}$,Lead free Bulk)										

Guangzhou ZGC Electronic Co.Ltd.

Tel:+86-20-32068136 Fax: +86-20-32068201 E-mail:zgd@worldzgc.com [Http://www.worldzgc.com](http://www.worldzgc.com)