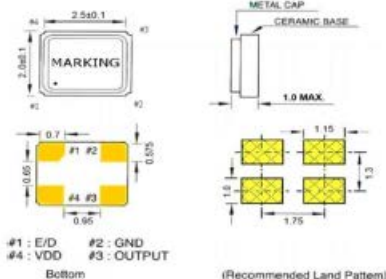


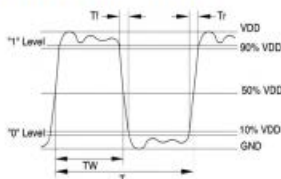
● SPECIFICATION

Model	OSC-S22 Series		
Frequency range	0.0625 ~ 160.000 MHz		
Storage temperature range	- 55°C ~ + 125°C		
Operation temperature range	- 20°C ~ + 70°C , - 40°C ~ + 85°C , - 40°C ~ + 125°C , specify		
Frequency stability	±10 ppm ~ ±100 ppm		
Power supply voltage: (5.0V DC available on request)	3.3V DC ±10%	2.5V DC ±5%	1.8V DC ±5%
Current consumption	0.0625-25.000 MHz:5 mA (max)	0.0625-25.000 MHz:5 mA (max)	0.0625-25.000 MHz:5 mA (max)
	25.001-50.000 MHz:12 mA (max)	25.001-50.000 MHz:10 mA (max)	25.001-50.000 MHz:8 mA (max)
	51.000-100.000 MHz:30 mA (max)	51.000-100.000 MHz:15 mA (max)	51.000-100.000 MHz:10 mA (max)
	101.000-160.000 MHz:40 mA (max)	101.000-160.000 MHz:20 mA (max)	101.000-160.000 MHz:15 mA (max)
Output level	C-MOS		
Load	15 pF		
Output voltage level	V _{OL} : 10% V _{DD} (max) / V _{OH} : 90% V _{DD} (min)		
Duty cycle	45% ~ 55% at 1/2 V _{DD}		
RISE / FALL TIME	6 nS (max)		
Phase Jitter	0.3 pS (typ)		
Startup time	1.000-32.000 Mhz:5 mS (max) , 32.100-160.000 MHz:10 mS (max)		
Enable	Enable Voltage High	70% V _{DD} (min)	
Control	Disable Voltage Low	30% V _{DD} (max)	
Pad1	Disable Current	10 uA (max)	
Aging	±3ppm / Year (max)		

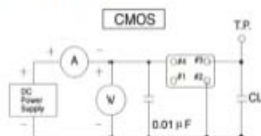
● DIMENSIONS (mm)



● OUTPUT WAVEFORM



● TEST CIRCUIT



*** Because S22 series has no by pass capacitor.
So, we recommend our customer to use capacitor

- Models : OSC , OSCLD , OSCLP , OSCHS , O , OD , OP , OH

		M K	—				
--	--	--------	---	--	--	--	--

Model	Frequency in M(K)Hz		Supply Voltage (V _{DD})	Temp. of Stability	Package Code	Stability	Output Symmetry
<u>Standard XO</u>	MHz : ≥ 1.0MHz	M: MHz	0.9 : 0.9V	1 : -10 ~ + 60℃	H : Half	-5 : ± 5PPM	Blank : 40/60%
OSC : CMOS	KHz : < 1.0MHz	K: KHz	1.2 : 1.2V	Blank : -10 ~ + 70℃	F : Full	-10 : ± 10PPM	T : 45/55%
OSCLD : LVDS			1.5 : 1.5V	2 : -20 ~ + 70℃	S7 : 7*5 SMD	-15 : ± 15PPM	
OSCLP : LVPECL			1.8 : 1.8V	27 : -20 ~ + 75℃	S5 : 5*3.2 SMD	-20 : ± 20PPM	
OSCHS : HCSSL			2.5 : 2.5V	28 : -20 ~ + 85℃	S3 : 3.2*2.5 SMD	-25 : ± 25PPM	
			2.8 : 2.8V	37 : -30 ~ + 75℃	S22 : 2.5*2.0 SMD	-30 : ± 30PPM	
<u>Programmable XO</u>			3 : 3.0V	3 : -30 ~ + 80℃	S21 : 2.0*1.6 SMD	Blank : ± 50PPM	
O : CMOS			3.3 : 3.3V	38 : -30 ~ + 85℃		-100 : ± 100PPM	
OD : LVDS			5V : 5.0V	I : -40 ~ + 85℃			
OP : LVPECL			A : 1.8~3.3V	A : -40 ~ + 105℃			
OH : HCSSL			B : 2.5~3.3V	B : -40 ~ + 125℃			
				C : -55 ~ + 125℃			
				D : -40 ~ + 150℃			
				X : Custom			

