

25.4 x25.4mm Oven Controlled Crystal Oscillator

Feature

- Typical 25.4 x25.4 x 12.7 mm
- Hermetically Sealed DIP Package
- Low power consumption and high reliability
- SC Cut Crystal



Electrical Specifications

Parameter		3.3V			5.0V			Unit
		Min.	Type	Max.	Min.	Type	Max.	
OUTPUT (PIN = "R.F. OUTPUT")								
Frequency		5		40	5		40	MHz
Output Level:	Output High	2.4			2.4			V
	Output Low			0.4			0.4	V
Waveform:		Rectangular			Rectangular			
Load			15			15		pF
Duty		45	50	55	45	50	55	%
Frequency stability								
Frequency stability	Ambient (0~+70°C/-30~+70°C /-40~+85°C)	±0.5, ±1, ±3, ±5, ±10			±0.5, ±1, ±3, ±5, ±10			ppb
	Daily	-0.5		+0.5	-0.5		+0.5	ppb
	Yearly	-50		+50	-50		+50	ppb
	10 Years	-0.3		+0.3	-0.3		+0.3	ppm
	Voltage(±5% change)	-0.5		+0.5	-0.5		+0.5	ppb
	Short term			0.05			0.05	ppb/s
	Load(±5% change)	-0.5		+0.5	-0.5		+0.5	ppb
Phase Noise	Warm-up	-10		+10	-10		+10	ppb
	1Hz		-95	-90		-95	-90	dBc/Hz
	10Hz		-125	-120		-125	-120	
	100Hz		-140	-135		-140	-135	
	1KHz		-148	-145		-148	-145	
	10KHz		-156	-155		-156	-155	
100KHz		-158	-155		-158	-155		
ELECTRICAL FREQUENCY ADJUSTMENT (PIN = "VCO INPUT")								
Tuning Range	VCO @ Min. Voltage			-0.5			-0.5	ppm
	VCO @ Max. Voltage	+0.5			+0.5			ppm
Control Voltage	Ordering Information	0	+1.65	+3.3	0	+2.5	+5.0	V
		0	+1.4	+2.8	0	+2.0	+4.0	V
INPUT POWER (PIN = "+VDC")								
Voltage		+3.135	+3.3	+3.465	+4.75	+5.0	+5.25	V
Current				1000			800	mA
Steady State				1.3			1.3	W
REFERENCE VOLTAGE (PIN = "REFERENCE VOLTAGE")								
Voltage		+2.7	+2.8	+2.9	+3.8	+4.0	+4.2	V
Storage Temperature		-55		+125	-55		+125	°C

DIMENSION(mm)

