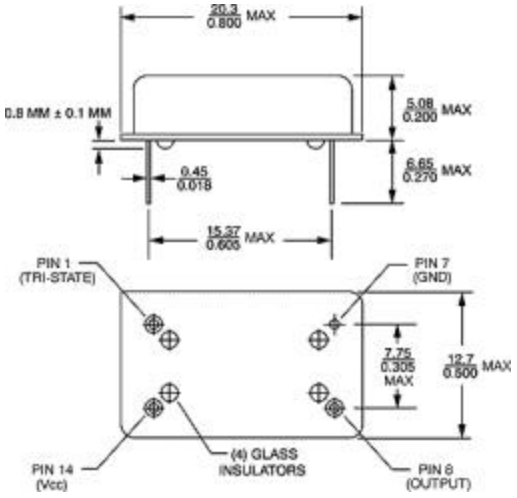
VITE TECHNOLOGY EXPRESS

Electrical Characteristics VPA1 Series Oscillator

Parameter	Symbol	Minimum		Typical		Maximum		Unit
		3.3 V	5.0 V	3.3 V	5.0 V	3.3 V	5.0 V	
Frequency Range	f_0	1.544		-		125		MHz
Operating Temperature Range	T_0	0 to 70 or -40 to 85						°C
Storage Temperature	T_S	-55 to 125						°C
Stability Options[1]		± 50, ± 100						PPM
Supply Voltage	V_{DD}	3.3 (±10%) or 5.0 (±10%)						V
Supply Current	I_{DD}	-		-		28	45	mA
Disable Curent		-		-		16	30	mA
Output Levels								
High with HCMOS Load	V_{OH}	V_{DD} - 0.4	V_{DD} - 0.4	-		-		V
Low	V_{OL}	-	-	-		0.4		V
Output Rise/Fall Time[2]	$t_{R/F}$	-		-		4		ns
Tri-state (Input to Pin 1)								
Output Enable	V_{IH}	$0.7V_{DD}$	2	-		-	-	V
Output Disable (High Imp)	V_{IL}	-	-	-		$0.2V_{DD}$	0.8	V
Output Symmetry/Duty Cycle		40/60, 45/55 (Non Standard)						%
Start-up Time	t_{SU}	-		-		10		ms
Total Jitter						50		ps p-p
Output HCMOS Load								
1.544 to 66 MHz		-		-		15	50	pF
66 to 125 MHz		-		-		15	15	pF

1. Inclusive of calibration tolerance at 25°C, operating temperature, supply voltage, load, aging, shock and vibration
2. Transition times are measured between 10% and 90% of V_{DD}, with a maximum output load of 15 pF.

Parameter	Description
Mechanical Shock	MIL-STD 883 Method 2022.3, Test A
Mechanical Vibration	MIL-STD 883 Method 2007.1, Test A
Temperature Cycle	MIL-STD 883 Method 1010, Test A
Gross Leak Test	100% leak tested in deionized water
Fine Leak Test	MIL-STD 883, Method 1014
Resistance to Solvents	MIL-STD-883, Method 2015



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