

Travelling Merchant: _____

DATASHEET

Standard: **V754-A312-25.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2017.12.01			

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1. Electrical Parameters

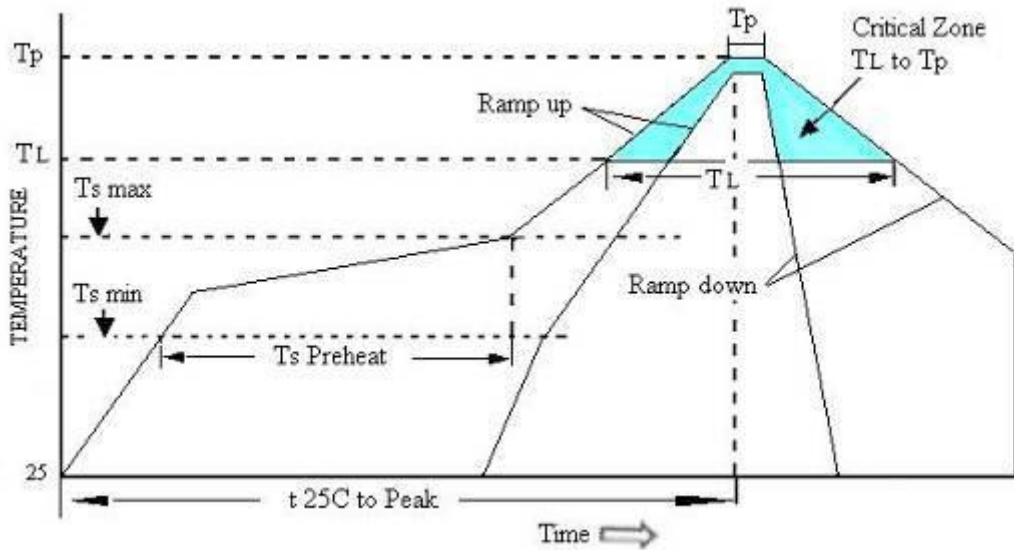
MODEL: V754-A312-25.00MHZ						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	25.00			MHz	
	Output Waveform	HCMOS				
	Output Low Voltage			0.1	V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Output High Voltage	0.9			V	$V_{cc}=3.3V, O_{load}=15\text{ pF}$
	Duty Cycle	45		55	%	@50%
	Phase Jitter			0.8	pS	12kHz to 20MHzBW
	Rise / Fall Time (10%~90%)			5	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-25		+25	$\times 10^{-6}$	T_A varied from -40°C to 85°C, measurement referenced to frequency observed with $T_A = 25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V, O_{load}=15\text{ pF}$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-30		+30	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-3		+3	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}, V_{cc}$ varied from 3.13V to 3.47V, $V_c=1.65V$ and $O_{Load}=15\text{ pF}$.
	Frequency Tolerance vs. Load	-1		+1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V, O_{Load}=15\text{ pF}$.
	Aging Tolerance 1 Year	-3		+3	$\times 10^{-6}$	$T_A=25^\circ\text{C}, V_{cc}=3.3V, V_c=1.65V$ and after 1h of operation.
	Aging Tolerance 15Years	-10		+10	$\times 10^{-6}$	
Power Supply	Current Consumption			8	mA	@25°C, $V_{cc}=3.3V, V_c=1.65V, O_{load}=15\text{ pF}$.
	Supply Voltage	3.13	3.3	3.47	V	
	Start-up Time			1	mS	To 90% of Final Amplitude



Voltage Control Characteristics	Frequency Tuning Range			-100	$\times 10^{-6}$	$V_c=0V$. measurement referenced to $V_c=1.65V$
		-10		+10	$\times 10^{-6}$	$V_c=1.65V$. measurement referenced to exactly 25.00MHz
		+100			$\times 10^{-6}$	$V_c=3.3V$. measurement referenced to $V_c=1.65V$
	Modulation Band Width	15	20		KHZ	
	Linearity	-10		10	%	$V_c=0.15$ to 3.15 V
	Slope	Positive				
	Input Impedance	5			MΩ	
Phase Noise	Phase Noise		-70	-75	dBc/Hz	10Hz
			-108	-103		100Hz
			-132	-127		1KHz
			-145	-140		10KHz
			-155	-150		100KHz
			-155	-150		1MHz
Environmental Conditions	Operable Temperature	-40	+25	+85	°C	
	Storage Temperature	-55		+125	°C	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 0.75mm; acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z) .IEC 68-2-06 Test Fc.				
Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z),IEC 68-2-27 Test Ea/Severity 50A.					



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

