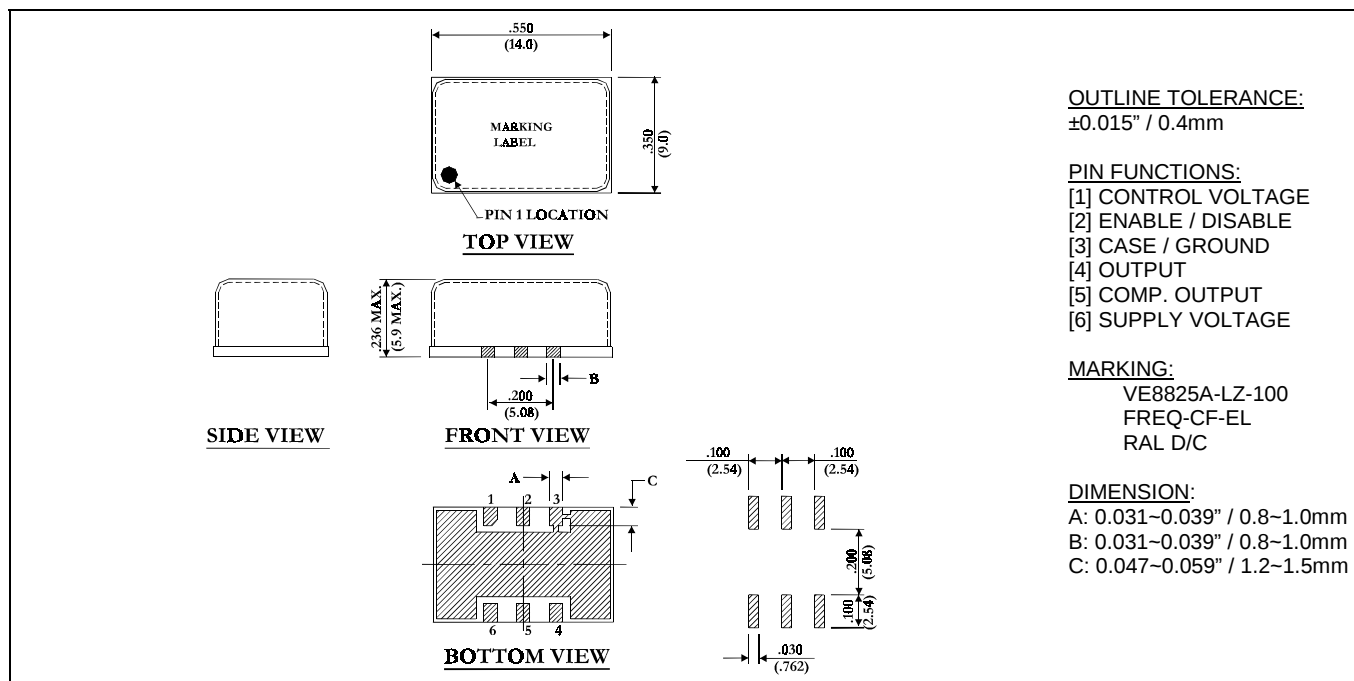


VE/VC8825A-LZ-100-FREQ-CF-EL VE/VC8925A-LZ-100-FREQ-CF-EL (3.3V)

- Specifically designed for OC192; FEC applications
- Meets SONET Jitter requirement
- Available at 3.3V***** (Shall use 9 in the 2nd figure P/N location... Example; VC8925A...)
- Enable/Disable – optional Feature

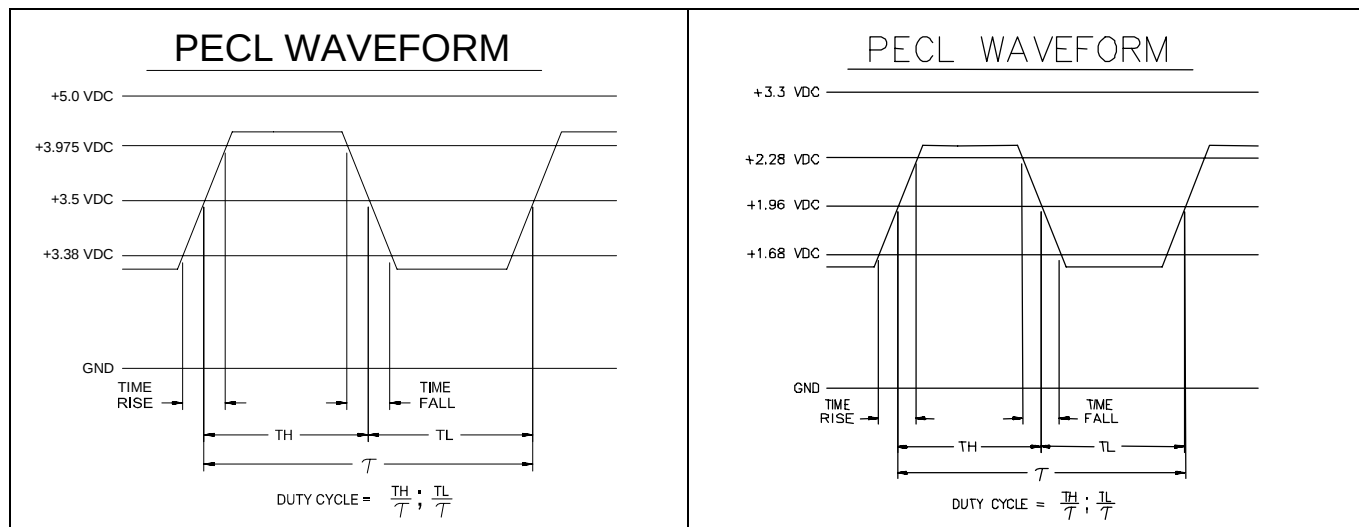
MECHANICAL SPECIFICATION



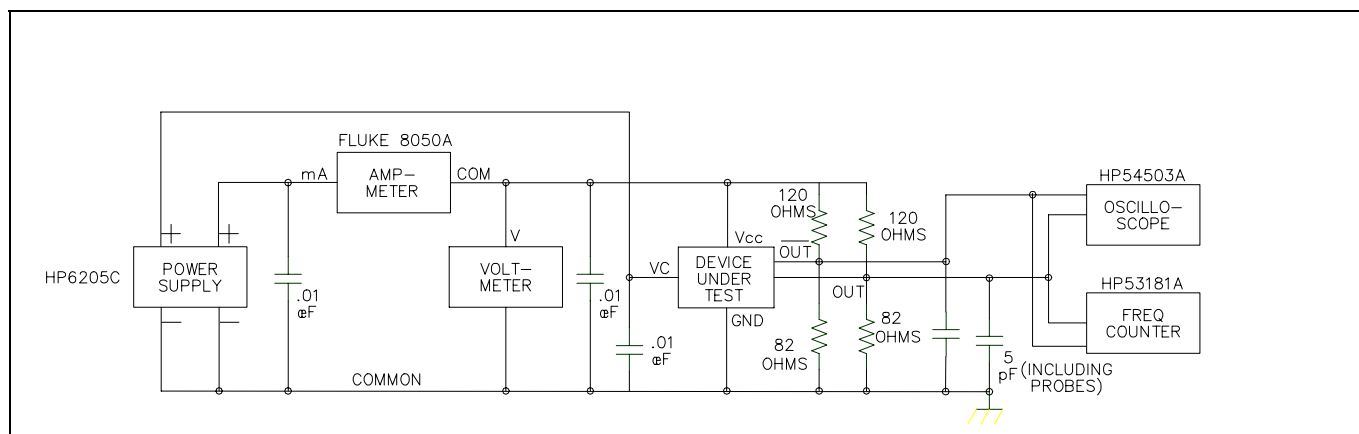
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom.	f ₀	-	622.08; 666.5143; 669.3266	MHz
Supply voltage, nom.	V _{cc}	V _{cc} ±5%	+5.0; +3.3	V
Supply current, max.	I _s	V _{cc} =nom, V _c =0.5*V _{cc} , T _a =+25°C, 50Ω to V _{cc} -2.0VDC load	135.0	mA
PECL output level	VOH / VOL	V _{cc} =nom, load=50Ω to V _{cc} -2.0VDC	V _{cc} -1.025/V _{cc} -1.62	V
Duty cycle	DC	load=50Ω to V _{cc} -2.0VDC / @ 50%V _{cc} , T _a =+25°C	40...60	%
Rise- / fall time, max.	t _r / t _f	20%~80% V _{out} , 80%~20% V _{out} , max	0.550	ns
Jitter, rms, max.	J	1σ, F _j = 12kHz...20MHz	1.0	ps
Freq. stability vs. temperature, max.	Δf/fc(T _a)	T _a =0°C...+70°C, (ref. to +25°C)	±25.0	ppm
Freq. stability vs. supply, max.	Δf/fc(ΔV _{cc})	± 5% Supply change	±5.0	ppm
Freq. stability vs. load, max.	Δf/fc(Δload)	± 10%Load change	±3.0	ppm
Aging characteristics, max.	Δf/fc(Δt)	Δt=1 st year Δt=per year thereafter	±4.0 ±2.0	ppm ppm
Control voltage range	V _c	DC	+0.5...+4.5 (0...3.3 @ V _{cc} =3.3V)	V
Freq. pulling range, min.	Δf/fc	over the control voltage range	±100.0	ppm
Settability	V _{f0}	T _a =+25°C ±1°C	+2.5 ± 0.5 (+1.65±0.25 @ V _{cc} =3.3V)	V
Linearity, max.	Δf/V	Positive slope	± 10.0	%
Input impedance, min.	Z _{in}	-	10.0	KΩ
Modulation freq. bandwidth, min.	MBW(-3dB)	V _{cc} =nom, V _c =0.5*V _{cc} , T _a =+25°C, 50Ω to V _{cc} -2.0VDC load	10.0	KHz
Enable option	En	Pin 2=Low, V _{cc} -1.620 (max.)	Enabled	-
Disable option	Dis	Pin 2=High, V _{cc} -1.025 (min.)	Pin 4 will assume a fixed level of logic "0", and pin 5 will assume a fixed level of logic "1"	-
Operating temperature range	T _a	-	0...+70	°C
Storage temperature range	T(stg)	-	-40...+90	°C
Absolute voltage ranges	V _{cc} , V _c (abs)	Non-destructive, DC	-0.5...+7.0	V

■ TIMING DIAGRAM



■ ELECTRICAL TEST DIAGRAM



■ REFLOW SOLDER

