FEATURES

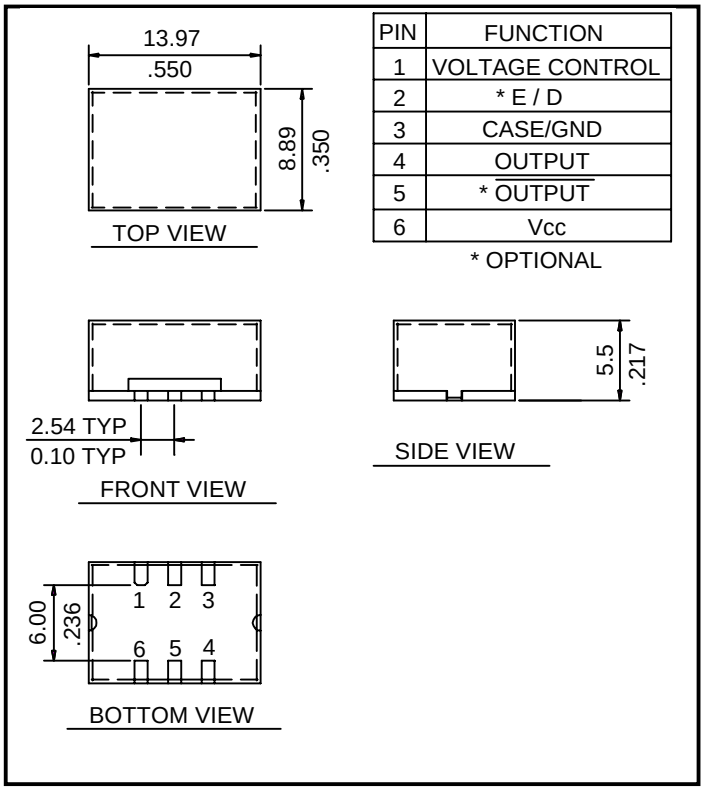
VC-VE8850A-LZ-100-FREQ.-CF-EL

- 3.3 & 5.0 VOLTS - FR5
- SMT 9x14 FR5 MINIATURE PACKAGE
- LOW JITTER PECL OUTPUT
- UTILIZING HIGH FREQUENCY FUNDAMENTAL CRYSTAL DESIGN
- ENABLE/DISABLE OPTION
- STANDARD TEMPERATURE RANGE OR EXTENDED
- COMPLIMENTARY OUTPUT OPTION

SPECIFICATIONS

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
FREQUENCY, NOM	fo	-	155.520; 166.6286; 177.737142; 178.571428	MHz
SUPPLY VOLTAGE, NOM	Vcc	Vcc±5%	+5.0 (OPTIONAL +3.3VDC)	V
SUPPLY CURRENT, MAX	Is	Vcc=+5.0VDC, Vc=+2.5VDC, Ta=+25°C, 50Ω TO +3.0VDC LOAD	135.0	mA
PECL OUTPUT LEVELS	VOH/VOL	LOAD=50Ω TO +3.0VDC	+3.98/+3.38	V
DUTY CYCLE	DC	LOAD=50Ω TO +3.0VDC / @+3.6VDC	40...60	%
RISE AND FALL TIME	tr / tf	20% ~ 80% Vout, 80% ~ 20% Vout, MAX	1.0	ns
JITTER, rms, MAX	J	Fj=12kHz...20MHz	1.0	ps
FREQ. STABILITY VS TEMPERATURE, MAX	Δf/fc (Ta)	Ta=0°C...+70°C, (REF. TO 25°C) (OPTIONAL -40°C TO +85°C)	±50.0	PPM
FREQ. STABILITY VS SUPPLY, MAX	Δf/fc (ΔVcc)	±5% SUPPLY CHANGE	±5.0	PPM
FREQ. STABILITY VS. LOAD, MAX	Δf/fc (Δload)	±10% LOAD CHANGE	±3.0	PPM
AGING	Δf/fc (Δt)	ΔT =1st YEAR ΔT =PER YEAR THEREAFTER	±3.0...±5.0 ±2.0	PPM
CONTROL VOLTAGE RANGE	Vc	DC	+0.5…+4.5	V
FREQ. PULLING RANGE, MIN	Δf/fc	OVER THE CONTROL VOLTAGE RANGE	±100.0	PPM
SETTABILITY	Vfo	Ta=+25°C ±1°C	+2.5±0.5	V
LINEARITY, MAX	Δf/V	POSITIVE SLOPE	±10	%
INPUT IMPEDANCE, MIN	Zin	-	47.0	KΩ
MODULATION FREQ. BANDWIDTH, MIN	MBW (-3dB)	Vcc=+5.0VDC, Vc=+2.5VDC, Ta=+25°C, 50Ω TO +3.0VDC LOAD	10.0	KHz
ENABLE	En	PIN 2=LOW, Vcc-1.620 (MAX)	ENABLED	-
DISABLE	Dis	PIN 2=HIGH, Vcc-1.025 (MIN)	PIN 4=LOW, PIN 5=HIGH	-
OPERATING TEMPERATURE	Ta	-	0…+70	°C
STORAGE TEMPERATURE	T(stg)	-	-40…+90	°C
ABSOLUTE VOLTAGE RANGE	Vcc, Vc(abs)	NON-DESTRUCTIVE, DC	-0.5…+7.0	V

OUTLINE DRAWING



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