

- **FEATURES**
  - VCXO
  - LOW JITTER
  - 3rd OVERTONE CRYSTAL DESIGN

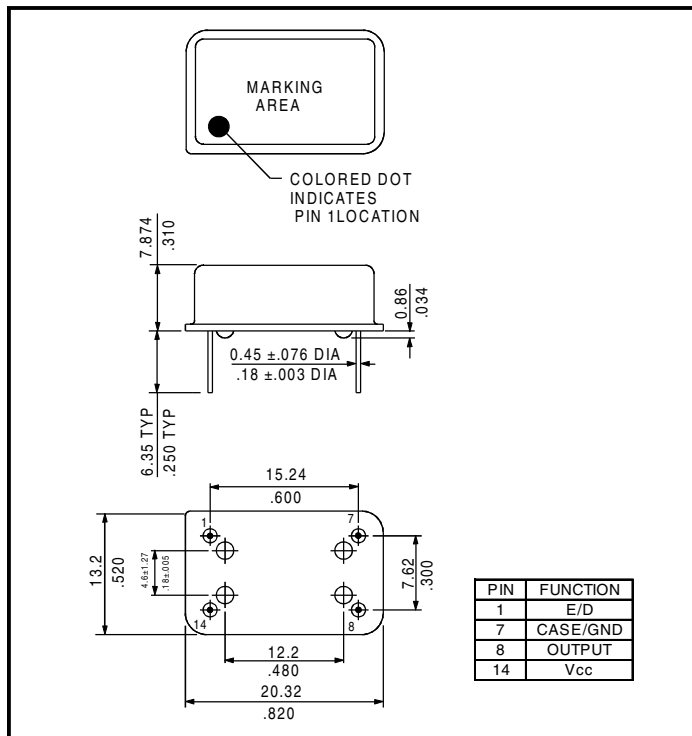
**MODEL VC7225A**

REVISION: B  
DATE: 11/01/01

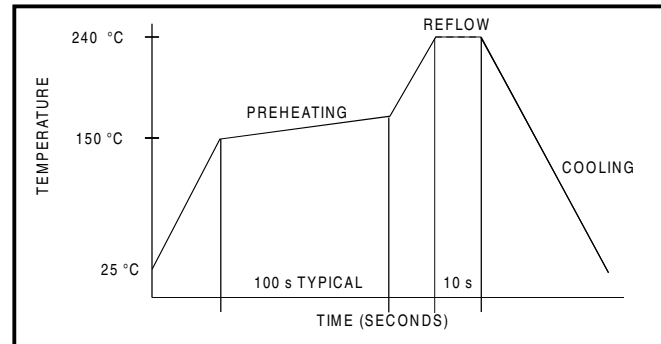
● **SPECIFICATIONS**

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
FREQUENCY, NOM	fo	-	125.00, 133.00, 156.25	MHz
SUPPLY VOLTAGE, NOM	Vcc	Vcc ±5%	5.0	V
SUPPLY CURRENT, MAX	Is	Vcc=+5.0 VDC, Vc=+2.5VDC, Ta=+25°C, 15pF LOAD	70.0	mA
HCMOS OUTPUT LEVEL	VOH / VOL	LOAD = 15pF ±5%	4.5 / 0.5	V
DUTY CYCLE	DC	LOAD = 15pF / 50% Vcc	40..60	%
RISE AND FALL TIME	tr/tf	20%~80%, 80%~20% Vout, MAX	3	nS
PHASE NOISE AT FREQ. OFFSET	£(Δf)s	Δf = 10Hz Δf = 100Hz Δf = 1kHz Δf = 10kHz	-65 -100 -125 -140 -145	dBc/Hz
FREQ. STABILITY VS. TEMP. MAX	Δf/fc (Ta)	Ta = 0°C...+70°C,(REF. TO +25°C)	±25.0	PPM
FREQ. STABILITY VS. SUPPLY VOLT MAX	Δf/fc (ΔVcc)	SUPPLY VARIATION = ±5%	±5.0	PPM
FREQ. STABILITY VS. LOAD, MAX	Δf/fc (ΔLoad)	LOAD VARIATION = ±10%	±3.0	PPM
FREQ. STABILITY VS. CALIBRATION, MAX	(fc-fo)/fo	Vcc = +5.0VDC, Vc=+2.5VDC, Ta=+25°C, 15pF LOAD	±5.0	PPM
AGING	Δf/fc (Δt)	Δt= 10 YEARS	±20.0	PPM
CONTROL VOLTAGE	Vc	DC	+0.5...±4.5	V
FREQUENCY PULLING RANGE, MIN	Δf/fc (ΔVc)	OVER THE CONTROL VOLTAGE RANGE	±30.0...±50.0	PPM
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, 15pF LOAD	10.0	kHz
OPERATING TEMPERATURE RANGE	Ta	-	0..+70	°C
STORAGE TEMPERATURE RANGE	T(stg)	-	-40...+90	°C
ABSOLUTE VOLTAGE RANGE	Vcc, Vc(abs)	NON-DESTRUCTIVE,DC	-0.5...+7.0	V

● **OUTLINE DRAWING**



● **SOLDER REFLOW PROFILE**



● **PACKAGING**

25 PIECES PER PLASTIC TUBE

● **EXAMPLE**

VC7225A-LZ-30-125.000