

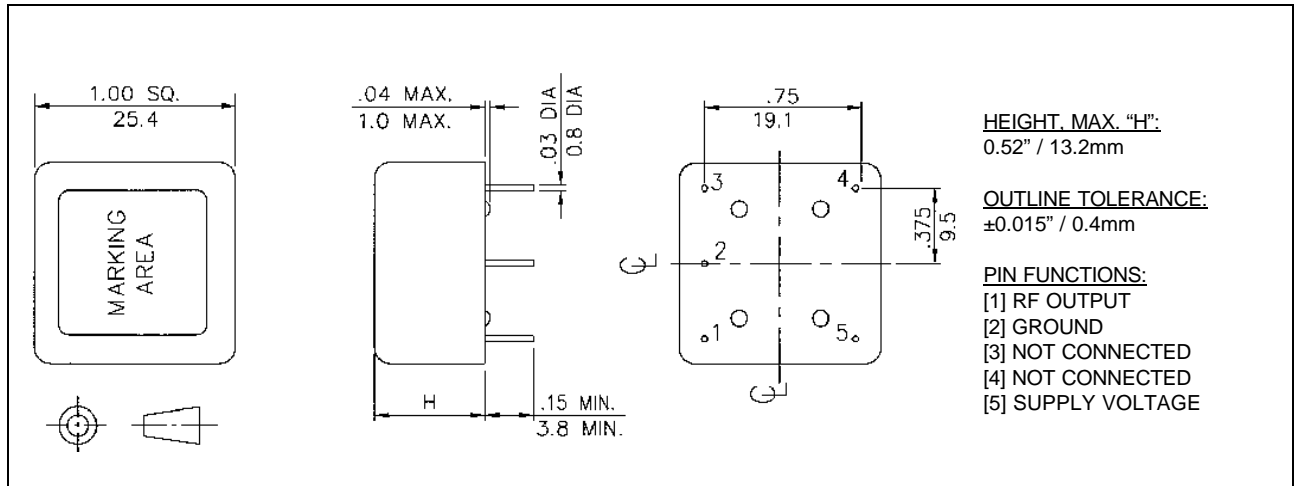
OX4180A-LZ-1-12.800-SM

REFERENCE OSCILLATOR TO SEMTEC ACS8530 STRATUM 3E SYNCHRONIZATION CHIP SET

APPROVALS

| RALTRON | CUSTOMER |
|-----------------------|-----------------------|
| Created by, date: | Name (please print): |
| Sales approval, date: | Title (please print): |
| Eng. approval, date: | Signature, date: |
| Revision: | |

MECHANICAL SPECIFICATION



ELECTRICAL SPECIFICATION

| PARAMETER | SYMBOL | CONDITIONS | VALUE | UNIT |
|------------------------------------|--------------|---|-----------|--------|
| Supply voltage, nom. | Vs | Vs±5% | 3.3 | V |
| Power dissipation, max. | Ps | Vs, nom. / Ta=+25°C | 1.3 | W |
| Heat up power, max. | Ps_heat | Vs, nom. / Ta=+25°C | 3.5 | W |
| Heat up time, max. | t_heat (Ta) | Vs, nom. / Ta=+25°C | 5.0 | min |
| Frequency nom. | fo | - | 12.800 | MHz |
| Frequency calibration | Δf/fo | Ta=+25°C, Pre-Reflow | ±1.5 | ppm |
| Freq. stability vs. temperature | Δf/fc (Ta) | Ta=0°C...+70°C | ±0.01 | ppm |
| Freq. stability vs. supply voltage | Δf/fc (ΔVcc) | Per %change in voltage, max. : ±5% | ±0.002 | ppm |
| Total freq. stability | Δf/fo | over all causes including 20 year aging | ±4.0 | ppm |
| Drift | D | for 24 hrs. in a ±3°C temperature range anywhere within the operating temperature range | ±0.04 | ppm |
| Short term stability | Δf/fc(Δt) | Δt=1sec. (Allan variance) | 10E-11 | |
| Phase noise @ freq. offset | £ (Δf) | Δf=100Hz | -130 | dBc/Hz |
| | £ (Δf) | Δf=1kHz | -145 | dBc/Hz |
| | £ (Δf) | Δf=10kHz | -150 | dBc/Hz |
| | £ (Δf) | Δf=100kHz | -150 | dBc/Hz |
| HCMOS/TTL compatible output levels | VOH / VOL | load=10pF; Vs, nom. | 2.97/ 0.3 | V |
| Duty cycle | DC | load=10pF / @ 50% level | 40...60 | % |
| Rise- / fall time | tr / tf | 10%~90% Vout, 90%~10% Vout | 10.0 | ns |
| Storage temperature range | Tstg | - | -55...+90 | °C |

3/12/2001 marketing-rfq, ocxo, Ox80