Electrical Specifications

Nominal Frequency (F_O): 50.0MHz

Frequency Stability
Over Temperature (with offset applied): $\leq \pm$1ppm
10-Year Aging: $\leq \pm$3ppm

Frequency Adjustment
Method: External Voltage (V_C), 0 to +5.0V_{DC}
Adjustment Tuning Range: $\geq \pm$5ppm
Slope: Negative

Output (Sinewave)
Level: 0dBm $\pm$3dB
Load: 50Ω $\pm$10%

SSB Phase Noise (typical, under static conditions)
-80dBc/Hz @ 10Hz offset
-110dBc/Hz @ 100Hz offset
-140dBc/Hz @ 1kHz offset
-150dBc/Hz @ 10kHz offset

Sub-Harmonics: -70dBc maximum

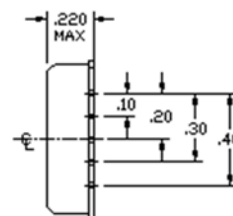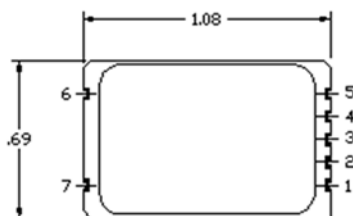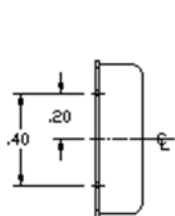**Power Supply**
Supply Voltage (V_S): +5.0V_{DC} $\pm$ 5%
Current Consumption: 3.0*mA* typical

Temperature Range
Operating: -40°C to +70°C
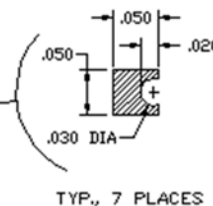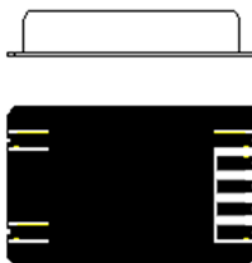Storage: -55°C to +85°C

Solderability: Per EIAJ-STD-002

PIN CONNECTIONS:

1. CASE GROUND & SUPPLY RETURN
2. SUPPLY (+)
3. RF OUTPUT
4. DO NOT CONNECT
5. CONTROL VOLTAGE
6. CASE GROUND
7. CASE GROUND

TYP., 7 PLACES

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS
.XX ± .01
.XXX ± .005

Revised March 31st 2021;   *Rev. A*   *Page 1 of 2*
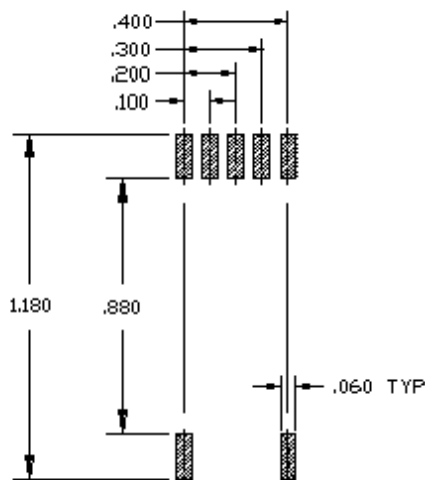*SAE -109*

Note: **Although the XO3080 family is an SMT device, it is not a reflow assembly compatible device. Therefore, it must be hand assembled to the PCB.**

Suggested Land Pattern

Oscillator is to be soldered to lands by hand with a maximum land temp of 260°C for a maximum of 3 seconds .