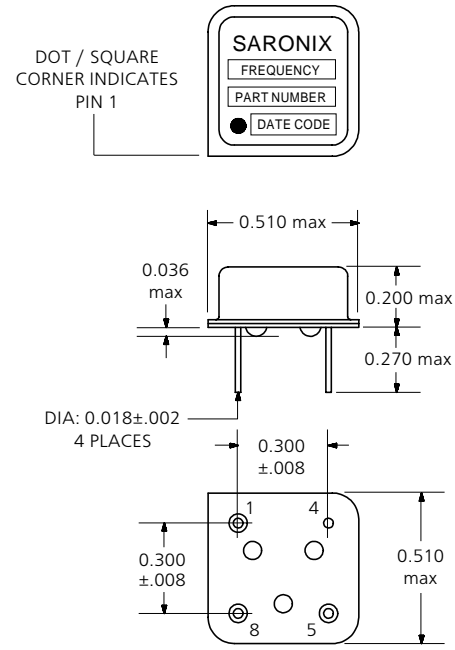


- 1) **MODEL IDENTIFICATION NUMBER:** S2058
- 2) **OPERATING TEMPERATURE RANGE:** 0°C to +70°C
- 3) **STORAGE TEMPERATURE RANGE:** -55°C to +125°C
- 4) **INPUT (SUPPLY) VOLTAGE:** Rated 5V ±10% Operating +7V max
- 5) **INPUT (SUPPLY) CURRENT:** 70mA max
- 6) **OUTPUT CHARACTERISTICS (ANY COMBINATION OF OPERATING (SUPPLY) VOLTAGE, OPERATING TEMPERATURE RANGE AND LOADING):**
- a) TTL COMPATIBLE
 - b) LOAD: 50Ω AC MOS
 - c) LOGIC "1": 80% V_{DD} min
 - d) LOGIC "0": 0.5V max
 - e) DUTY CYCLE (SYMMETRY): 45/55% max @ 1.5V
 - f) RISE/FALL TIMES (0.8V to 2.4V): 1.5ns max
- 7) **ENVIRONMENTAL:**
- a) GROSS LEAK TEST: MIL-STD-883, Method 1014, Condition C
 - b) FINE LEAK: MIL-STD-883, Method 1014, Condition A2
 - c) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
 - d) MOISTURE RESISTANCE: MIL-STD-88, Method 1004
- 8) **MECHANICAL:**
- a) DIMENSIONS: Per Figure 1
 - b) SHOCK: MIL-STD-883, Method 2002, Condition B
 - c) SOLDERABILITY: MIL-STD-883, Method 2003
 - d) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test Condition B2
 - e) VIBRATION: MIL-STD-883, Method 2007, Condition A
 - f) SOLVENT RESISTANCE: MIL-STD-202, Method 215
 - g) RESISTANCE TO SOLDERING HEAT: MIL-STD-202, Method 210, Condition A, B or C
- 9) **OPERATING FREQUENCY:** 80.0000 MHz
- 10) **FREQUENCY STABILITY (OVER ALL COMBINATIONS OF OPERATING TEMPERATURE, RATED INPUT (SUPPLY) VOLTAGE CHANGES, LOAD CHANGES, CALIBRATION TOLERANCE, AGING, SHOCK AND VIBRATION):** ±100 ppm

STANDARD MARKING FORMAT*



PIN CONNECTION	
1	TRISTATE CONTROL LOGIC "0" FOR HIGH IMPEDANCE STATE ON PIN 8
4	GROUND / CASE
5	OUTPUT
8	SUPPLY VOLTAGE

FIGURE 1 – PACKAGE DRAWING

*Exact location of items may vary

REMOVE ALL BURRS AND SHARP EDGES
ALL DIAMETERS TO BE CONCENTRIC WITHIN .005 TIR
TOLERANCES: .XX--=0.005 .XX--=0.05 .HOLE: ±.003
DIMENSION IN: mm/inches
ANGULAR: ±2°

UNLESS OTHERWISE SPECIFIED

REVISIONS				ISSUED		DATE	SaRonix 141 Jefferson Drive, Menlo Park California 94025, U.S.A.		
REV	DESCRIPTION	DATE	APPD	DRN			TITLE		
IR	INITIAL RELEASE	97/02/04	L L	CHK	BOWIE	98/09/16	ELECTRICAL, ENVIRONMENTAL MECHANICAL SPECIFICATION S2058		
A	PER ECO 1223	97/02/13	L L	ENG	CRAIG T.	98/09/16	SIZE	CAGE CODE	DWG. NO.
B	PER ECO 1474	98/09/22	J K	MFG	GARY S.	98/09/21	A	61441	S2058
				QA	RICHARD B.	98/09/18	SHEET 1 of 2		

11) DESIGN MANUFACTURING DETAILS:

APPROVED MFGR	CIRCUIT PART#
SKIL	CKT-145

INTERNAL USE ONLY

SaRonix 141 Jefferson Drive, Menlo Park
California 94025, U.S.A.

SIZE
A

CAGE CODE
61441

DWG. NO.

S2058

REV

B

DATE

98/09/16

SHEET

2

of

2