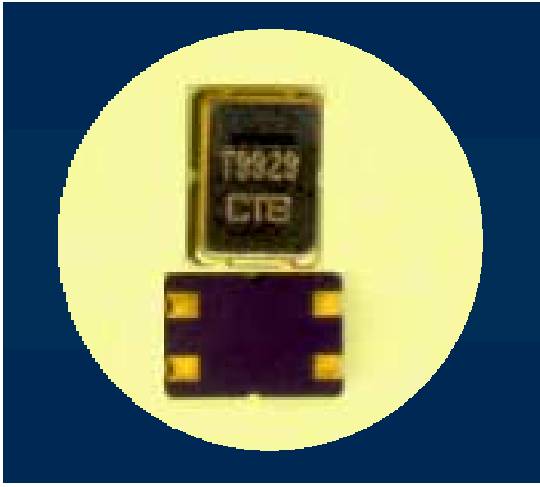


**Features:**

- Stable frequency over temperature and drive level
- Low Profile Seam Weld Package

**Description and Applications:**

Surface mount **5x7mm** reference crystal for use in Cellular handsets, 2-way radios, pagers, and other portable electronics requiring a stable frequency source.



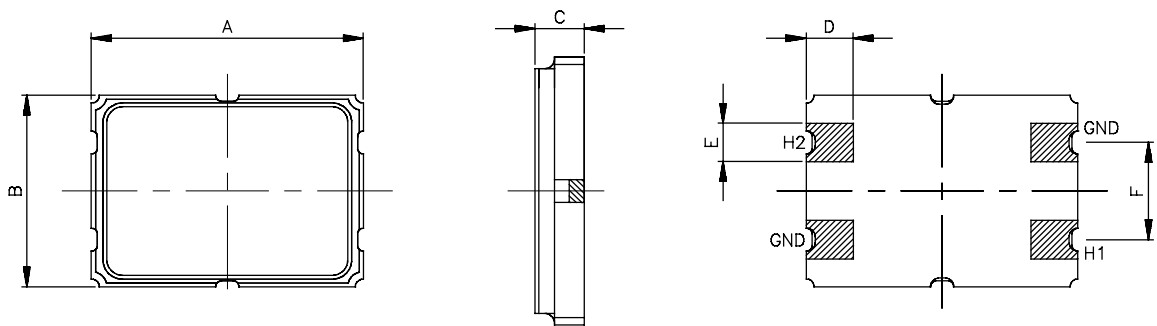
**Electrical Specifications:**

<b>KXN6489B</b>	<b>Specification</b>
Nominal Frequency	14.4 Mhz
Mode of Vibration	Fundamental
Storage Temperature Range	-40 C to 85 C
Frequency Stability over Temperature	± 15 PPM (-10 C to 50C)
Frequency Make Tolerance	± 10 PPM @25 C +/- 3°C
Resonance Resistance	30Ω Max.
Drive Level	10 μ W Max.
Load Capacitance	12 pf
Shunt Capacitance	5.0 pf Max.
Aging	+/-2 PPM/Yr @25C

Post Environmental Performance:

<p><b>Mechanical Shock:</b> @ a half sine pulse shock of 0.3 milliseconds duration and a peak level of 3000 g's</p>	<p><math>\Delta F_s &lt; +/- 2.0 \text{ PPM}</math> <math>\Delta R_s &lt; +/- 3 \Omega \text{ or } 10\%</math></p>
<p><b>Vibration:</b> Per 2 x EIA RS-152-B</p>	<p><math>\Delta F_s &lt; +/- 2.0 \text{ PPM}</math> <math>\Delta R_s &lt; +/- 3 \Omega \text{ or } 10\%</math></p>
<p><b>Thermal Shock:</b> Air to air @ -30°C to 85°C, 30 min. at each temperature with less than 20 sec. transition time for 32 cycles. Allow crystals to stabilize a minimum of 4 hours prior to re-test.</p>	<p><math>\Delta F_s &lt; +/- 2.0 \text{ PPM}</math> <math>\Delta R_s &lt; +/- 3 \Omega \text{ or } 10\%</math></p>

Mechanical Dimensions (mm):



5x7	A	B	C	D	E	F
mm	7.00	5.00	1.27	1.21	0.99	2.54
	$\pm 0.18$	$\pm 0.18$	$\pm 0.20$	$\pm 0.13$	$\pm 0.13$	$\pm 0.13$

NOTE: For proper electrical performance of crystal resonator, GND pads should be electrically connected to ground in the final application.