

# TIGHT TOLERANCE THERMOPLASTIC ENCASED SMD CRYSTAL FK

The FK is an AT-cut tight tolerance SMD crystal designed to withstand extreme heat from IR reflow operations. This new compact package is formed before the crystal is inserted which allows for tighter tolerances and stabilities.

## FEATURES

- Tight Tolerance and Stability
- Cost Effective
- Excellent Hermeticity
- Tape and Reel (1,000 pcs. STD)



Actual Size

# DISCONTINUED

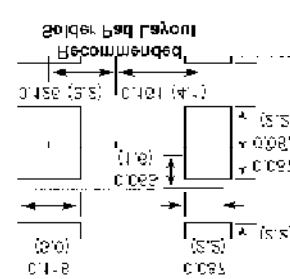
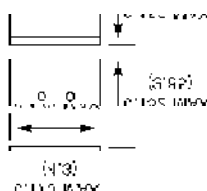
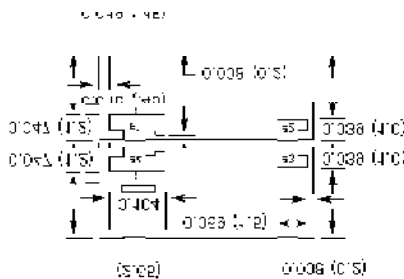
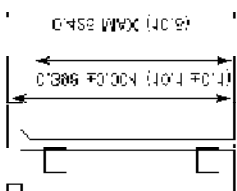
## • FK STANDARD SPECIFICATIONS

| PARAMETERS                      | CONDITIONS            | MIN      | MAX    | UNITS |
|---------------------------------|-----------------------|----------|--------|-------|
| Frequency Range                 |                       | 3.579545 | 90.000 | MHz   |
| Frequency Tolerance             | Ta = 25°C             | -20 *    | +20 *  | PPM   |
| Frequency Stability, ref @ 25°C | See below             |          |        |       |
| Temperature Range               |                       |          |        |       |
| Operating (TOPR)                | See below             |          |        |       |
| Storage (TSTG)                  |                       | -40      | +90    | °C    |
| Shunt Capacitance (Co)          |                       |          | 7.0    | pF    |
| Load Capacitance (CL)           | Customer Specified    | 10.0     | Series | pF    |
| Drive Level                     | 3.579545 ~ 90.000 MHz |          | 0.1    | mW    |
| Aging                           | Ta = 25°C; per year   | -5.0     | +5.0   | PPM   |

| Frequency Range (MHz) | Operating Mode | Max ESR W | Frequency Range (MHz) | Oper. Mode  | Max ESR W |
|-----------------------|----------------|-----------|-----------------------|-------------|-----------|
| 3.579 ~ 4.000         | Fundamental    | 200       | 9.000+ ~ 13.000       | Fundamental | 60        |
| 4.000+ ~ 5.000        | Fundamental    | 150       | 13.000+ ~ 20.000      | Fundamental | 40        |
| 5.000+ ~ 6.000        | Fundamental    | 120       | 20.000+ ~ 30.000      | Fundamental | 30        |
| 6.000+ ~ 7.000        | Fundamental    | 100       | 30.000 ~ 90.000       | 3rd OT      | 100       |
| 7.000+ ~ 9.000        | Fundamental    | 80        |                       |             |           |

| Operating Temperature | ±7.5PPM | ±10PPM | ±15PPM | ±20PPM | ±30PPM | ±50PPM | ±100PPM |
|-----------------------|---------|--------|--------|--------|--------|--------|---------|
| 0°C ~ +50°C           | *       | *      | *      | *      | *      | *      | *       |
| -10°C ~ +50°C         | *       | *      | *      | *      | *      | *      | *       |
| -10°C ~ +60°C         | *       | *      | *      | *      | *      | *      | *       |
| -10°C ~ +70°C         | *       | *      | *      | *      | *      | *      | *       |
| -20°C ~ +70°C         |         | *      | *      | *      | *      | *      | *       |
| -30°C ~ +80°C         |         |        | *      | *      | *      | *      | *       |
| -40°C ~ +85°C         |         |        |        | *      | *      | *      | *       |

\* Other tolerances available. Consult Fox Customer Service for specific requirements, or use crystal order form on page 6.  
All specifications subject to change without notice. Rev. 6/2/98



Inch dimensions shall govern.  
All dimensions are in inches & parenthetically in millimeters.  
See page 26 for tape and reel specifications.