



anderson electronics, llc

A Lokos Electronics Company



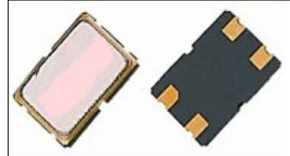
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AE 131 Series Surface Mount Crystal 7.0 x 5.0 x 1.30 mm

| Part Numbering Definition Guide: AE-131-A-2-4085-2-30-24M0000 | | | | | | | | |
|---|----|-----|---|---|------|--------------------------|----|------------------------|
| Example | AE | 131 | A | 2 | 4085 | 2 | 30 | 24M0000 (Freq. in MHz) |
| Oscillation Mode | | | A | | | Fundamental | | |
| | | | B | | | 3rd Overtone | | |
| Calibration Tolerance | | | | | 1 | ± 10 ppm | | |
| | | | | | 2 | ± 20 ppm | | |
| | | | | | 3 | ± 30 ppm | | |
| | | | | | 5 | ± 50 ppm | | |
| | | | | | Z | ±Custom (Specify) | | |
| Operating Temperature | | | | | 5505 | Custom (-55°C to +105°C) | | |
| | | | | | 4085 | -40° to +85° | | |
| | | | | | 3060 | -30° to +60° | | |
| | | | | | 2070 | -20° to +70° | | |
| Temperature Stability | | | | | 5 | ± 50 ppm | | |
| | | | | | 3 | ± 30 ppm | | |
| | | | | | 2 | ± 20 ppm | | |
| | | | | | 1 | ± 10 ppm | | |
| Load Capacitance | | | | | 18 | 18 pf | | |
| | | | | | 20 | 20 pf | | |
| | | | | | 30 | 30 pf | | |
| | | | | | 32 | 32 pf | | |
| | | | | | SE | Series | | |
| | | | | | XX | Custom (I.E. 08 pf) | | |



FEATURES:

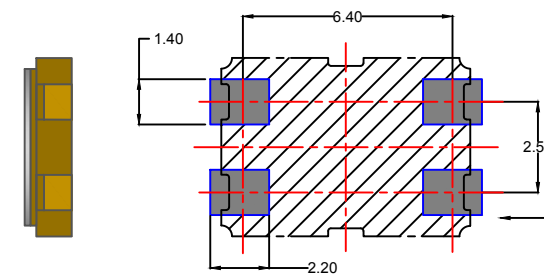
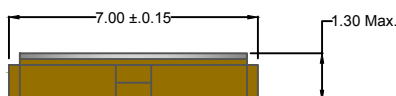
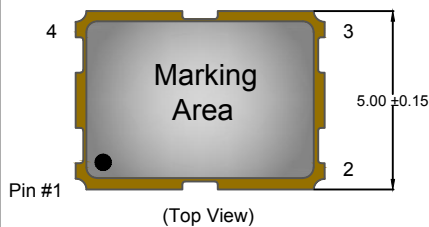
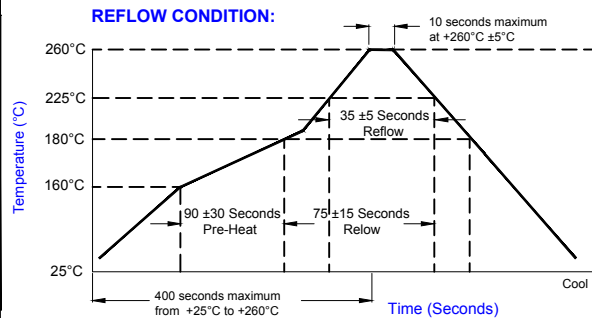
- Frequency Range 5.50 MHz - 150 MHz
- AT-strip cut for a tighter tolerance and stability.
- Seam sealed ceramic package which assures high reliability.
- Tape/Reel is compliant with EIA 481.
- ROHS Compliant/Pb-Free

APPLICATIONS:

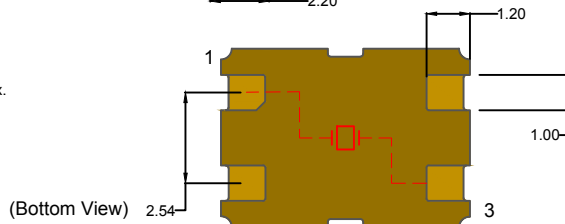
- This ceramic AE131 to be used for Computers, Modems, Microprocessors along with Communications and Test Equipment.

| Parameters | Minimum | Nominal | Maximum | Units |
|-----------------------|---------|---------|---------|----------|
| Shunt Capacitance | | | 7.0 | pF |
| Drive Level | | 100 | | uW |
| Aging / year | -5.0 | | +5.0 | Units |
| Insulation Resistance | 500 | | | (M) ohms |

| Frequency Range (MHz) | Series Resistance (ESR) | Mode of Operation |
|-----------------------|-------------------------|-------------------|
| 5.500 - 8.000 | 100 Ohms maximum | Fundamental |
| 8.000 - 14.000 | 60 Ohms maximum | Fundamental |
| 14.000 - 35.000 | 50 Ohms maximum | Fundamental |
| Greater than 35.000 | 80 Ohms maximum | 3rd Overtone |



| Pin | Connection |
|-----|------------|
| 1 | Crystal |
| 2 | Ground |
| 3 | Crystal |
| 4 | Ground |



Dimensions in Units: mm