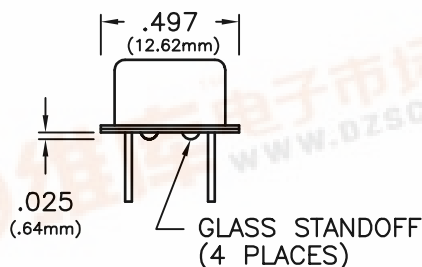
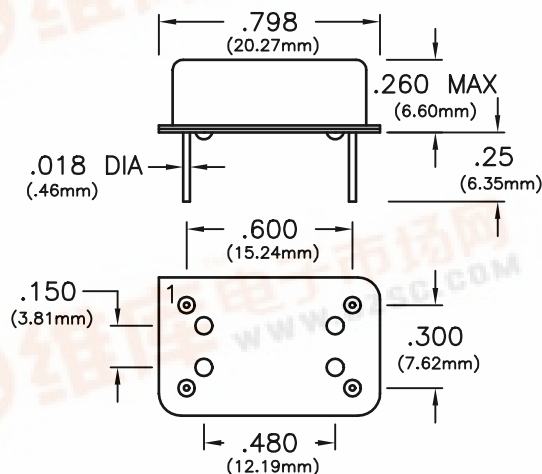


## 14 PIN DIP ADVANCED CMOS

| SPECIFICATIONS            | AC51                                                                                                                      | AC52                                   | AC53          | AC54   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|--------|
| Frequency Range           | 10MHz to 150MHz                                                                                                           |                                        |               |        |
| Frequency Stability       | ±25ppm                                                                                                                    | ±50ppm                                 | ±100ppm       | ±20ppm |
|                           | (Inclusive of calibration tolerance at 25°C and operating temperature range)                                              |                                        |               |        |
| Temperature Range         | 0°C to +70°C                                                                                                              |                                        |               |        |
| Output                    | Waveform                                                                                                                  | CMOS Squarewave , TTL Compatible       |               |        |
|                           | Load                                                                                                                      | 50pF                                   |               |        |
|                           | Voltage                                                                                                                   | Voh                                    | 4.4V Minimum  |        |
|                           |                                                                                                                           | Vol                                    | 0.44V Maximum |        |
|                           | Current                                                                                                                   | Ioh                                    | -24mA         |        |
|                           |                                                                                                                           | Iol                                    | 24mA Maximum  |        |
|                           | Duty Cycle                                                                                                                | 45/55 Maximum                          |               |        |
|                           | Rise/Fall Time                                                                                                            | 1ns Maximum (measured from .5 to 2.4V) |               |        |
| SSB Phase Noise (Typical) | -40dBc/Hz @ 10Hz , -85dBc/Hz @ 100Hz<br>-120dBc/Hz @ 1KHz , -140dBc/Hz @ 10KHz<br>-145dBc/Hz @ 100KHz , -145dBc/Hz @ 1MHz |                                        |               |        |
| Start Up Time             | 10mS Maximum                                                                                                              |                                        |               |        |
| Supply Voltage            | +5Vdc ±5%                                                                                                                 |                                        |               |        |
| Supply Current            | 100mA Maximum                                                                                                             |                                        |               |        |
| Package                   | All metal, hermatically sealed, welded package                                                                            |                                        |               |        |

**WARNING!** Do not insert oscillator into a hot circuit. Failure to comply will result in damage to oscillator.



| PIN | CONNECTION    |
|-----|---------------|
| 1   | N/C           |
| 7   | GROUND (CASE) |
| 8   | OUTPUT        |
| 14  | (+) SUPPLY    |