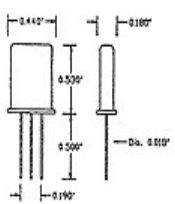
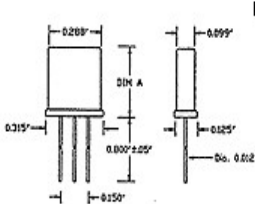


Crystal, Tight Tolerance

| DATA SHEET | | | |
|--|---|---|--------|
| Part Number | UM1(S), UM5(S) | | |
| Frequency Range | 8.000MHz ~ 160.000MHz | | |
| Calibration Tolerance @ 25°C | (See Option Table CT) | | |
| Operating Temperature Range | (See Option Table OTR) | | |
| Frequency Stability over Temperature | (See Option Table FS) | | |
| Operation Mode / ESR | 8.0M ~ 14.9M Fund • 60Ω | | |
| | 15.0M ~ 40.0M Fund • 35Ω | | |
| | 25.0M ~ 29.0M 3 rd OT • 60Ω | | |
| | 30.0M ~ 49.9M 3 rd OT • 50Ω | | |
| | 50.0M ~ 100.0M 3 rd OT • 60Ω | | |
| | 75.0M ~ 160.0M 5 th OT • 90Ω | | |
| Load Capacitance | 16pF Standard, Specify Custom Values | | |
| Shunt Capacitance | 7.0pF Typical | | |
| Aging per year | ±3.0PPM Max | | |
| Drive Level | 100nW — 1000μW (Calibration @ 100μW) | | |
| Packaging | Bulk standard, Option (-TR) Tape & Reel | | |
| OUTLINE DRAWING | | | |
| <p>HOLDER H1</p>  | | <p>HOLDER H2 DIM A = .475</p>  | |
| <p>Note: 4 pole Filters require 2 matched units</p> | | | |
| <p>DIM A UM1S = .475" UM5S = .402"</p> | | <p>DIM A UM1 = .315" UM5 = .240"</p> | |
| PART NUMBER TABLE | | | |
| Code | CT | OTR | FS |
| A1E | ±5PPM | 0°C ~ 50°C | ±3PPM |
| A2F | ±5PPM | -20°C ~ 70°C | ±5PPM |
| A3G | ±5PPM | -30°C ~ 80°C | ±10PPM |
| B1F | ±10PPM | 0°C ~ 50°C | ±5PPM |
| B2F | ±10PPM | -20°C ~ 70°C | ±5PPM |
| B3G | ±10PPM | -30°C ~ 80°C | ±10PPM |
| C2F | ±15PPM | -20°C ~ 70°C | ±5PPM |
| C3G | ±15PPM | -30°C ~ 80°C | ±10PPM |
| D2H | ±20PPM | -20°C ~ 70°C | ±20PPM |
| D3I | ±20PPM | -30°C ~ 80°C | ±20PPM |
| <p>Part Number Generation</p> <p>Package • Option Code • Frequency • Load Capacitance ex: UM1A1E-12.800M-183 (UM1, ±5ppm(tolerance)/±3ppm(stability), 0°C-50°C, 18pF)</p> <p>Please contact factory for custom specifications</p> | | | |