

DATASHEET

Q-SMD2016



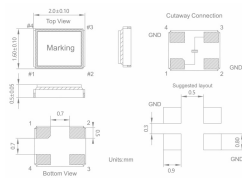
PART NO.: 10-0894  
PART DESCR.: Q-SMD2016-M4-16.000000 MHz-FU-12-20/20-40105

TYPE: Q-SMD2016  
MANUFACTURER: quarzwerk 01 GmbH

PRODUCT IMAGE



MARKING DIMENSION



TECHNICAL SPECIFICATION

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| A 1.00 Manufacturer Name                 | UTECH                                           |
| A 1.01 Manufacturer Part No.             | -                                               |
| A 1.02 Description                       | Quartz Crystal Resonator                        |
| A 1.04 Dimension & Type                  | MHz   SMD2016 (2.0 x 1.6 mm)                    |
| A 1.05 VPE                               | TR3000                                          |
| A 1.06 Date Created                      | 2026-01                                         |
| Q 3.01 Nominal frequency (Fo)            | 16.000000 MHz                                   |
| Q 3.02 Oscillation Mode                  | Fundamental AT                                  |
| Q 3.03 Load Capacitance (CL)             | 12.0 pF                                         |
| Q 3.04 Freq. Tol. max. (at +25°C)        | ±20 ppm max.                                    |
| Q 3.05 Freq. Stability Vs Temp. max.:    | ±20 ppm max.                                    |
| Q 3.06 Operating Temp. Range             | -40°C ~ +105°C                                  |
| Q 3.07 Storage Temp. Range               | -55°C ~ +125°C                                  |
| Q 3.08 Equivalent Res. (ESR)             | 100 Ω max.                                      |
| Q 3.09 Shunt Capacitance C0 (pf max.)    | 3                                               |
| Q 3.10 Motional Capacitance C1 (fF max.) | 5                                               |
| Q 3.11 Drive Level (Typical)             | 10 µW                                           |
| Q 3.12 Drive Level (Max.)                | 100 µW                                          |
| Q 3.13 Insulation Resistance             | 500 MΩ (Min.) at DC100V ±15V                    |
| Q 3.14 Air-tightness                     | Less than 1´10-9 Pa m3/s (Helium leak detector) |
| Q 3.15 Aging                             | ±3 ppm max first year                           |

CERTIFICATIONS



RoHS  
Compliant



ISO 9001:2000  
certified by SGS



ISO 14001:2004  
certified by SGS