

DATASHEET

Q-SMD7015



PART NO.: 11-0039
PART DESCR.: Q-SMD7015-P4-32.768 kHz-12.5-20-4085 | Epson MC-146 (3K/reel)

TYPE: Q-SMD7015
MANUFACTURER: quarzwerk 01 GmbH

PRODUCT IMAGE



MARKING DIMENSION

TECHNICAL SPECIFICATION

A 1.00 Manufacturer Name	EPSON
A 1.01 Manufacturer Part No.	-
A 1.02 Description	Quartz Crystal Resonator
A 1.03 Series	MC-146
A 1.04 Dimension & Type	kHz SMD7015 (7.0 x 1.5 mm)
A 1.05 VPE	TR3000
A 1.06 Date Created	2026-01
A 1.07 Last Update	2026-01
Q 3.01 Nominal frequency (Fo)	32.768 kHz
Q 3.02 Oscillation Mode	Tuning Fork XY
Q 3.03 Load Capacitance (CL)	12.5 pF
Q 3.04 Freq. Tol. max. (at +25°C)	±20 ppm max.
Q 3.05 Freq. Stability Vs Temp. max.:	-0.04 x 10 ⁻⁶ / °C ² Max
Q 3.06 Operating Temp. Range	-40°C ~ +85°C
Q 3.07 Storage Temp. Range	-55°C ~ +125°C
Q 3.08 Equivalent Res. (ESR)	65 kΩ max.
Q 3.09 Shunt Capacitance C0 (pf max.)	0.8
Q 3.10 Motional Capacitance C1 (fF max.)	1.9
Q 3.12 Drive Level (Max.)	1.0 μW max.
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