

TUNING FORK

CS-519

- Tuning Fork Crystal with Ceramic Packaged Type
- Small & Thin Packaging and light Weight
- Most Appropriate for Portable Devices and Mobile Telecommunications Devices



■ PART NUMBERING GUIDE

S TJ 125 20 B - 32.768 - T&R			
PACKAGE TYPE TC : CS-306, TJ: CS-519 TK : CS-146, TL: CS-3215 LOAD CAPACITANCE 125 : 12.5 pF 90 : 9.0 pF FREQUENCY TOLERANCE AT 25°C 20 : ± 20 ppm OPERATING TEMPERATURE RANGE A : -40 to 85 °C, B : -20 to 70 °C, C : -10 to 60 °C			PACKAGE OPTION T&R : TAPE AND REEL BLANK : BULK FREQUENCY kHz

■ ELECTRICAL SPECIFICATIONS

Nominal Frequency	32.768 kHz
Frequency Tolerance (at 25 °C)	±20 ppm
Load Capacitance (CL)	9.0 pF, 12.5 pF
Operating Temperature Range	-40 to +85 °C
Storage Temperature Range	-55 to +125 °C
Turnover Temperature	25 °C ± 5 °C
Temperature Coefficient	-0.04 ppm/ °C ²
Motional (series) resistance	70 KΩ
Drive Level	1 μW Max.
Aging (at 25 °C)	±3 ppm/year Max.
Shunt Capacitance (C0)	1.35 pF Typical

■ MECHANICAL DIMENSIONS

(mm)

■ LAND PATTERN

(mm)

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