

FC-135R

•Frequency range

•External dimensions :



FC-135 / FC-135 TYPE

FC-135R / FC-135...32.768 kHz FC-135 TYPE---32 kHz to 77.5 kHz

3.2 × 1.5 × 0.9 mm



Product Number FC-135R : X1A000141xxxx00 FC-135 : Q13FC1350xxxx00 FC-135 TYPE : Q14FC1350xxxx00



 Overtone order : Fundamental Applications : Small communications devices Specifications (characteristics) Specifications FC-135 Item Symbol Conditions / Remarks FC-135R C-135 TYPE 32 kHz to Please contact us about available Nominal frequency range 32.768 kHz 32.768 kHz f_nom 77.5 kHz frequencies -55 °C to +125 °C Storage temperature range T_stg Storage as single product. Operating temperature range T_use -40 °C to +85 °C (+105 °C) Please contact us about +85 °C < T_use Please contact us if you require DL 0.5 μW (1.0 μW Max.) Level of drive $1.0 \ \mu W Max.$ +25 °C, DL = 0.1 μW Frequency tolerance f_tol ±20 x 10⁻⁶ (standard) Please ask for tighter tolerance +25 °C ± 5 °C Ti Turnover temperature -0.04 x 10⁻⁶ / °C² Max. Parabolic coefficient В CL 7 pF, 9 pF, 12.5 pF Please contact us other CL values Load capacitance 70 kΩ to Motional resistance (ESR) R1 50 kΩ Max. 70 kΩ Max. 45 kΩ 3.7 fF to Motional capacitance C1 3.4 fF Typ. 3.4 fF Typ. 1.6 fF 1.3 pF to C0 Shunt capacitance 1.0 pF Typ. 1.0 pF Typ. 0.5 pF ±3 x 10⁻⁶ / year Max. +25 °C, First year Frequency aging f_age

Product name

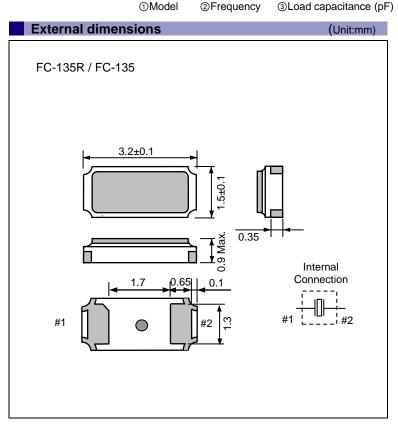
Product name (Standard form)

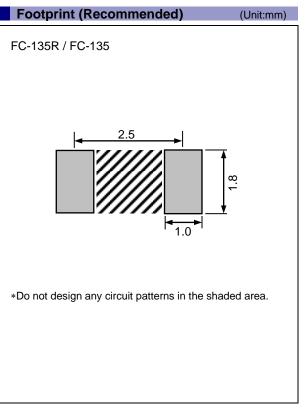
12.5 FC-135R 32.768000kHz +20.0-20.0 1 2 3

②Frequency ③Load capacitance (pF)

4

④Frequency tolerance (x 10⁻⁶, +25 °C)





PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs, Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

IATF 16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

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