









WIRELESS APPLICATION

CRYSTAL

RIVER ELETEC CORPORATION JAPAN

| Picture | Type | Freq. Range | ESR max. | Size | Features | Application |
|--|--|-------------|-----------------------|---------|---|---|
|  | FCX-08 1.2 x 1.0 x 0.33 mm 1.4 mg | 32 ~ 80 MHz | | SMD1210 | The world's smallest quartz crystal unit Automotive temperature range. (-40 ~ +125°C) Specifications in conformity with AEC-Q200 available on request | Smartphones / wireless-modules / wearable devices (IoT) / in-vehicle units |
|  | TCX-05X 1.2 x 1.0 x 0.35 mm 0.8 mg | 32.768 kHz | 80 kΩ | SMD1210 | World's smallest package Low ESR & high precision frequency with superior shock-resistance 47% smaller volume & 25% narrower projected area than SMD1612 | Smartphones / Wireless-Modules / Wearable Devices (IoT) |
|  | FCX-07 FCX-07L 1.6 x 1.2 x 0.45 mm 3.3 mg 1.6 x 1.2 x 0.33 mm 2.5 mg | 24 ~ 80 MHz | | SMD1612 | High-precision frequency (available from ±7ppm @25°C) Automotive temperature range (-40 ~ +125°C) One of our best-selling models Specifications in conformity with AEC-Q200 available on request | Smartphones / wireless-modules / wearable devices (IoT) / in-vehicle units |
|  | TCX-04 FCX-04C Low ESR 1.6 x 1.0 x 0.50 mm 2.7 mg | 32.768 kHz | 90 kΩ 60 kΩ | SMD1610 | Ultra-Low ESR in ultra-compact package Excellent shock-resistance High-precision frequency (available from ±10 ppm @25°C) | Smartphones / Wireless-Modules / Wearable Devices (IoT) |
|  | FCX-06 2.0 x 1.6 x 0.50 mm 5.6 mg | 16 ~ 90 MHz | | SMD2016 | Low frequency available from 16 MHz High-precision frequency (available from ±7ppm @25°C) Automotive temperature range (-40 ~ +125°C) Specifications in conformity with AEC-Q200 available on request | Tuner module / Wireless communication module / wearable devices (IoT) / Various communication |
|  | TCX-03 TCX-03C Low ESR TCX-03L Low Profile 2.0 x 1.2 x 0.60 mm 5.0 mg 2.0 x 1.2 x 0.35 mm 2.9 mg | 32.768 kHz | 90 kΩ 50 kΩ 60 kΩ | SMD2012 | Ultra-Low ESR (50 kΩ) in ultra-compact package Excellent shock-resistance High-precision frequency (available from ±10 ppm @25°C) | |
|  | FCX-04 FCX-04C 3.2 x 2.5 x 0.90 mm 23 mg 3.2 x 2.5 x 0.70 mm 18 mg | 8 ~ 60 MHz | | SMD3225 | High-precision frequency (available from ±7ppm @25°C) Automotive temperature range (-40 ~ +125°C) Provides pulling-sensitivity higher than 5032 size Specifications in conformity with AEC-Q200 available on request | |
|  | TCX-02S 3.2 x 1.5 x 0.35 mm 10.6 mg | 32.768 kHz | 70 kΩ | SMD3215 | High-precision frequency (available from ±10 ppm @25°C) Wide operating temperature range (-40 ~ +105°C) High-reliable ceramic/metal package sealed by seam welding One of our best-selling models | |