



## 32 KHZ MEMS OSCILLATORS - SIT1532, SIT1552, SIT1630



**SiTime's SiT15xx family** is the first MEMS based kHz oscillators designed for mobile and wearable electronics such as handsets, tablets, activity trackers, smart watches, GPS modules and Internet of Things (IoT).

Compared to legacy quartz products, SiTime's SiT15xx family in the CSP is up to 80% smaller with a 1.2 mm<sup>2</sup> total footprint.

#### **APPLICATIONS**

- » Mobile Phones
- Tablets
- Fitness bands
- Health and medical monitoring
- Wearables
- Portable audio
- · Sport video cams
- Active stylus
- IoT devices
- · Environmental sensors

80% smaller size

Ultra-low Power <1 µA

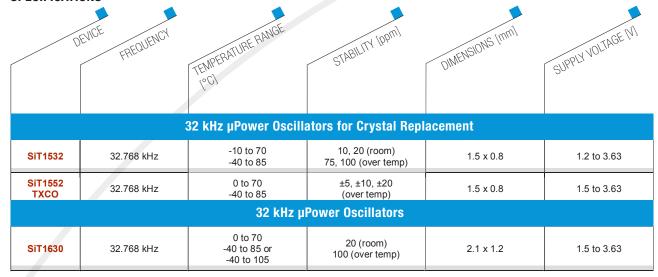
Most accurate ±5 ppm

Drives multiple loads

#### **FEATURES**

- » World's smallest footprint: 1.5 mm  $\times$  0.8 mm CSP
  - no load caps
  - no Vdd Bypass caps
- » Ultra low power consumption: <1 μA
- » Best frequency stability:
  - $\pm$  5 ppm over temp (SiT1552 TXCO)
  - 75 to 100 ppm over temp (SiT1532/SiT1630)
  - 5 to 10 ppm initial tolerance (SiT1552/SiT1532)
- » NanoDrive™-output option:
  - Minimizes output power
  - Directly interfaces to XTAL OSC input
- » XTAL-replacement in 2,0 mm  $\times$  1,2 mm SMD
- » Shock and drop resistance 10 kg

#### **SPECIFICATIONS**









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#### **BENEFITS**

- » Extend battery life
- » Save board space
- » Reduce BOM

### COMPARISON - 32 kHz MEMS OSCILLATORS TO QUARTZ-PRODUCTS

