

ADVANCED MEMS TIMING

Solutions for wearables, IoT, industrial, networking, lighting and more.

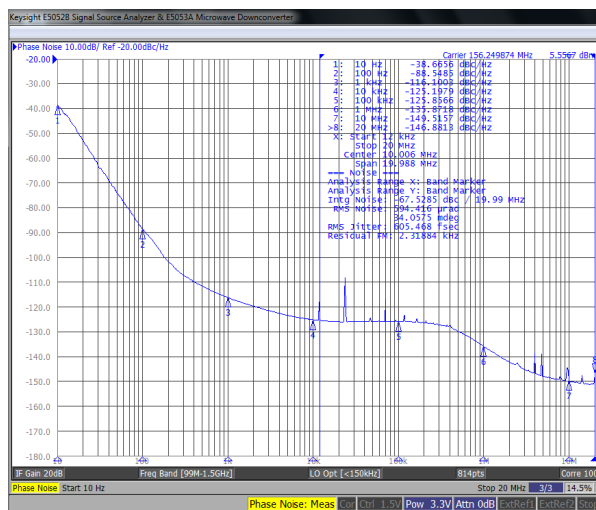
MEMS ASTM SERIES IDEAL FOR MCUs & FPGAs

Ultra Performance (UP), Low Power (LP), and High Temperature (HT)



Ultra Performance (UP) (0.6ps typ rms)
 LVDS/LVPECL up to 625MHz
 LVCMOS up to 220MHz
 Applications: high speed SERDES, FPGA, PCI Express, HPC, industrial computers, high reliability, cloud computing, communications and networking

ASTMUP TYPICAL PHASE NOISE PLOT
0.6ps rms PHASE JITTER



Low Power (LP) (<5mA) for system clocks
 LVCMOS
 Applications: FPGA, MCU, CPLD, CPU, system clock, memory, IoT, Industrial IoT, lighting

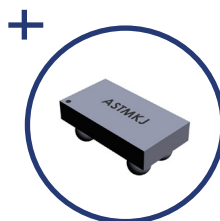


High Temperature (HT)
 LVCMOS
 Ideal temp ranges:
 -40 to +105°C, -40 to +125°C, and -55 to +125°C
 Applications: FPGA, MCU, CPLD, CPU, system clock, memory, IoT, Industrial IoT, lighting

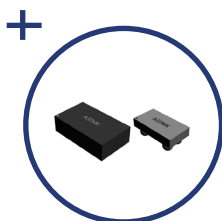
32.768kHz OSCILLATORS



ASTMTXK - SMALLEST & ±5PPM STABILITY
 Package Size: 1.54 x 0.84 mm
 Height: 0.6mm
 Frequency: 32.768kHz
 Temperature range: -40°C to +85°C



ASTMKJ - SMALLEST SIZE
 Package Size: 1.54 x 0.84 mm
 Height: 0.6mm
 Frequency 32.768kHz
 Temperature range: -40°C to +85°C



ASTMK - SMALLEST SIZE
 Package Size: 2.0 x 1.2mm or 1.54 x 0.84mm
 Height: 0.6mm
 Frequency Range: 1.0Hz to 32.768kHz
 Temperature range: -40°C to +85°C