IQD ? New MEMS oscillator reduces lead-time across 1MHz to 800MHz frequency range

Medical Design Technology

The new model can be factory programmed with either a LVDS (low voltage differential source) or LVPECL (low voltage positive emitter coupled logic) output.

The plastic packaged IQMS-900 series is available in two sizes: either a 7mm x 5mm or the increasingly popular 5mm x 3.2mm. Due to its MEMS technology design, phase jitter is low being typically 0.7ps at 200MHz. Two supply voltages are available, 3.3V and 2.5V. Frequency stabilities can be specified at either ±10ppm over an operating temperature range of 0C to +70C or +/-15ppm over -40C to +85C.

MEMS technology is based upon the process techniques of CMOS (complementary metal oxide silicon) and as such can be produced on standard production lines in foundries that are more used to producing standard or custom integrated circuits. This of course lends itself to the ability of producing product in vast quantities at an economic rate.

The IQMS-900 range is eminently suitable for the incorporation into infrastructure equipment where it will provide very accurate timing processes coupled with the ability to drive the very latest high-speed processors that will enable the transfer of high data rates – the fast rise and fall times contribute to this. Typical applications include Fibre Channel, Ethernet 10G, HDMI, SATA/SAS & USB3.

IQD’s MEMS products can be manufactured on short lead-times of typically 1 to 6 weeks, depending upon volumes. The devices are RoHs compliant and are available on tape-and-reel for production purposes, says the company.

SOURCE [1]

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