

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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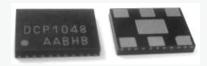


Abracon ASxxx Series of High Performance MEMS Differential Clock Oscillator

ASxxx Series of devices are miniature MEMS based, PLL clock oscillators optimized to meet the requirements of high speed serial data communication channels. These differential devices are available in single and dual output formats including CMOS, LV-PECL, LVDS, and HCSL.

Features

- Devices are available in standard pin-pin compatible [7.0 x 5.0 mm], [5.0 x 3.2 mm], [3.2 x 2.5 mm], and[2.5x2.0mm] footprints.
- Devices are Lead Free & RoHS compliant.
- Jitter optimized for high speed serial data formats.
- High Reliability, with 20 times better MTTF than quartz oscillators
- Devices operate from +2.5, to +3.6 Volt supplies
- -40 to +85C operating temperature range, and extended Automotive Grade temperature stability at -55 to +125°C, ± 25 ppm
- Multiple output formats: CMOS, LVPECL, LVDS, HCSL, including Dual Output configurations.
- High Stability with \pm 10ppm, \pm 25ppm, \pm 50 ppm available.
- Short lead Time: 2 weeks
- Shock & Vibration Immunity MIL-STD-883
- 50 dBc Power Supply Rejection Ratio
- Field programmable production devices are available



Applications

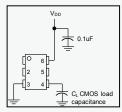
Storage Area Networks » SATA, SAS, Fibre Channel, PCIe

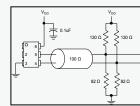
Passive Optical Networks » EPON, 10G-EPON, GPON, 10G-PON

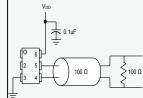
Ethernet » 1G, 10GBASE-T/KR/LR/SR, FCoE

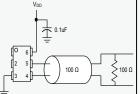
Video » HD, SD, SDI

Application Output Configurations







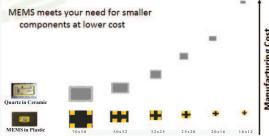


What the ASxxx can do for your design.....

The ASxxx series saves PCB area. Combine a small device footprint and minimal external components to get the smallest solution footprint.

The ASxxx series is optimized to exceed Jitter requirements of high speed serial data formats. Integrated jitter 100KHz -20MHz < 400fs, and 200KHz - 20 MHz < 300 fs.

ASxxx series is more cost efficient vs. quartz competitors. As device dimensions shrink, quartz resonator costs increase. The 0.2 mm2 MEMS device cost decreases with package size.



Highly reliability designs such as Enterprise SSD Memory cannot meet their performance targets without highly reliable components such as the ASxxx clock oscillators.

http://www.eetimes.com/design/memory-design/4412418/W hy-flash-storage-needs-MEMS

MEMS Part Number / Key Performance list

ABRACON DIFFERENTIAL MEMS					
I		MP (7.0 x 5.0 x	ge: 2.25V to 3.6 V 0.85mm, ASFLMP		n
Part Number	Differential Output Type	Supply Current	& All others 3.2 x 2 Frequency Range	Integrated Phase Jitter (JPH)	Stability
ASEMCLP ASEMCLV ASEMCHC ASEMDHC ASEMDLP ASEMDLV	LVPECL LVDS HCSL Dual HCSL Dual LVPECL Dual LVDS	56.5mA typ 29mA typ 40mA typ 60mA typ 89mA typ 89mA typ	~ 10 – 460MHz	Typically, < 400fs / (100KHz – 20MHz) and < 300fs /	+/-10ppm over -40 / 85C
ASEMP	CMOS, LVPECL, LVDS, HCSL CMOS, LVPECL, LVDS, HCSL	31mA typ 51mA typ 29mA typ 40mA typ 31mA typ 56.5mA typ 29mA typ 40mA typ	CMOS ~10 - 170MHz LVPECL / LVDS / HCSL ~10 - 460MHz	(200KHz – 20MHz (Typical Ref 156MHz clock o/p)	+/-10ppm over -20/70C and
ASFLMP	CMOS, LVPECL, LVDS, HCSL	31mA typ 51mA typ 29mA typ 40mA typ	CMOS ~ 10 – 170MHz	Typically, < 550fs / (100KHz – 20MHz)	+/-50ppm over -55/ +125C
ASVMP	CMOS, LVPECL, LVDS, HCSL	31mA typ 51mA typ 29mA typ 40mA typ	LVPECL / LVDS / HCSL ~ 10 - 425MHz	and < 350fs / (200KHz – 20MHz	

