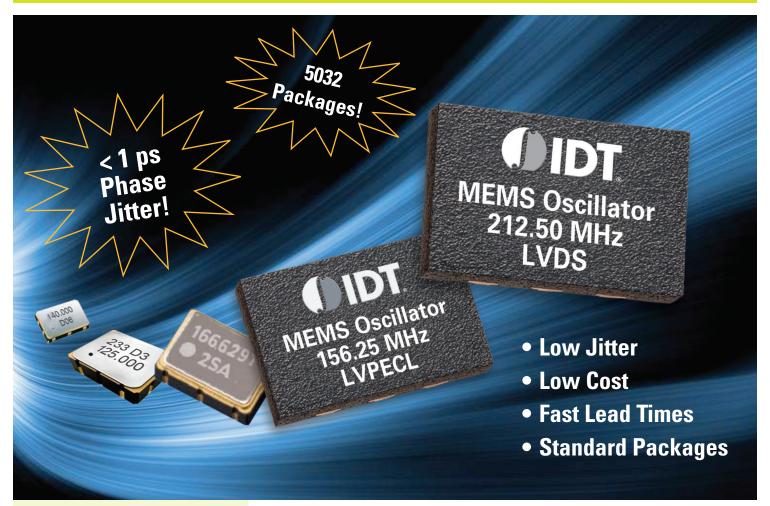


MEMS Oscillators: 4M Series

TIMING & SYNCHRONIZATION



BENEFITS / FEATURES

- Short lead times
- Enables Just-In-Time inventory management
- Standard differential outputs - LVDS. LVPECL
- Standard package sizes
- Low Phase Jitter
 - < 1.0 ps rms (12 kHz to 20 MHz)
- ± 50 ppm Frequency Stability
- Shock and vibration resistant
- Up to 40x higher reliability than Quartz

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WWW.	IUL.GOIII/	UU/IVIEIVI

LVDS LVPECL	5032	7050
Package Size	5.0 x 3.2 mm	7.0 x 5.0 mm
Supply Voltage	2.5 or 3.3 V	2.5 or 3.3 V
Frequency Range	50 MHz ~ 625 MHz	50 MHz ~ 625 MHz
Frequency Stability	± 50 ppm	± 50 ppm
Temperature Range	-40 to +85°C	-40 to +85°C

Standard Frequencies (MHz)

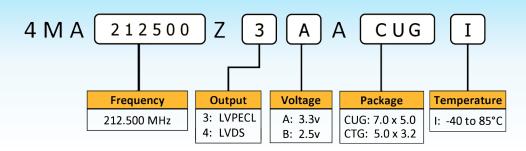
100	106.25	125	133.33	148.5	150	155.52	156.25
159.375	160	161.133	187.5	200	212.5	250	312.5

ADDITIONAL CUSTOM FREQUENCIES AVAILABLE UPON REQUEST

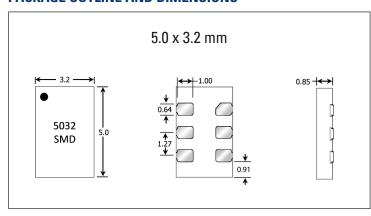


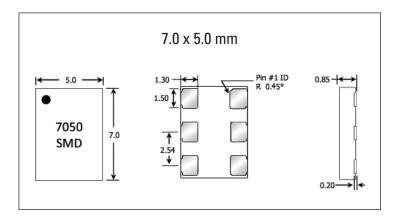
TWANAGEMENT ANALOG & RE INTERFACE & CONNECTIVITY TIMING & SYNCHRONIZATION MEMORY & LOGIC DATA CONVERSION

PART ORDERING GUIDELINE



PACKAGE OUTLINE AND DIMENSIONS

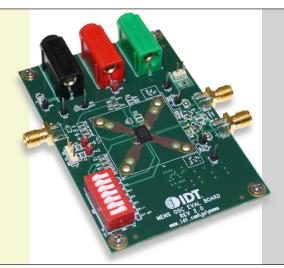




MEMS OSCILLATOR EVALUATION BOARD

FEATURES

- Differential SMA output
- Standard banana plug power connectors
- Available in standard 5032 and 7050 size packages
- Selectable output termination for both LVDS and LVPECL
- Switch control for Output Enable (OE)



The MEMS Oscillator Evaluation Board is designed to provide a convenient platform to quickly evaluate the performance and operation of IDT's family of MEMS oscillators. The board includes provisions for LVPECL and LVDS termination and can also be configured to terminate directly into a 50 Ω oscilloscope. For VTT terminated LVPECL, a separate bias voltage (VDD - 2V) is also generated onboard for measurement convenience.

TECHNICAL SUPPORT

EMAIL: MEMS_Support@idt.com

WEBSITE: www.idt.com/go/MEMS



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PB_MEMS4M_REVB0413

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Renesas Electronics:

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4MA133330Y3BACTGI
4MA050000Z3AACTGI
4MA074250Z3AACUGI
4MA125000Y4AACTGI

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4MA233333Z4AACTGI
4MA150000Y3AACUGI
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4MA400000Y3AACTGI8
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