

< 1 ps Phase Jitter!

5032 Packages!

IDT MEMS Oscillator 212.50 MHz LVDS

IDT MEMS Oscillator 156.25 MHz LVPECL

- Low Jitter
- Low Cost
- Fast Lead Times
- Standard Packages

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**

www.idt.com/go/MEMS

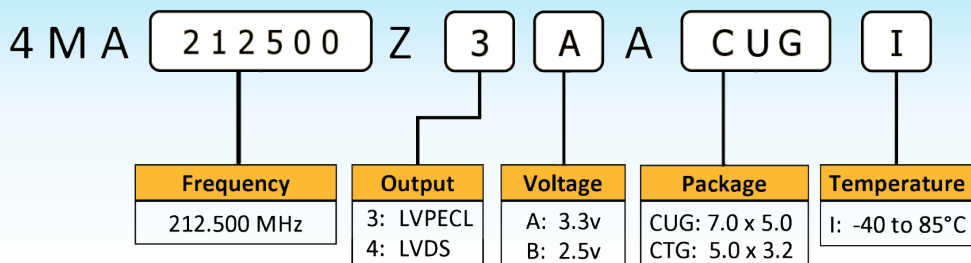
LVDS LVPECL	 5032	 7050
Package Size	5.0 x 3.2 mm	7.0 x 5.0 mm
Supply Voltage	2.5 or 3.3 V	2.5 or 3.3 V
Frequency Range	50 MHz ~ 625 MHz	50 MHz ~ 625 MHz
Frequency Stability	± 50 ppm	± 50 ppm
Temperature Range	-40 to +85°C	-40 to +85°C

Standard Frequencies (MHz)

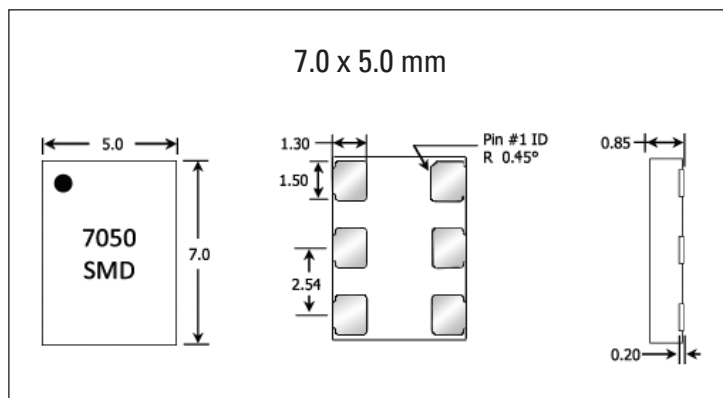
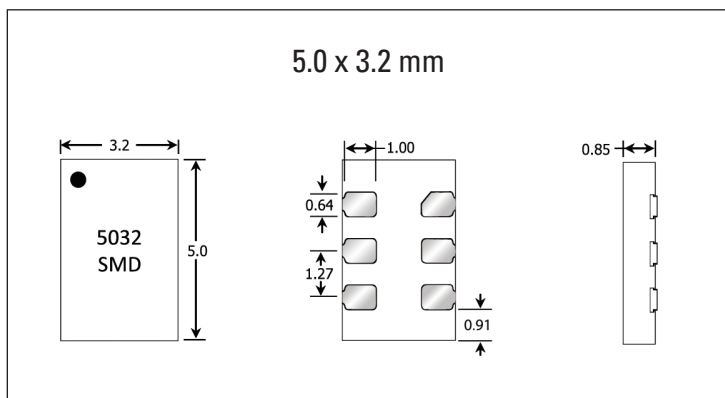
100	106.25	125	133.33	148.5	150	155.52	156.25
159.375	160	161.133	187.5	200	212.5	250	312.5

ADDITIONAL CUSTOM FREQUENCIES AVAILABLE UPON REQUEST

PART ORDERING GUIDELINE



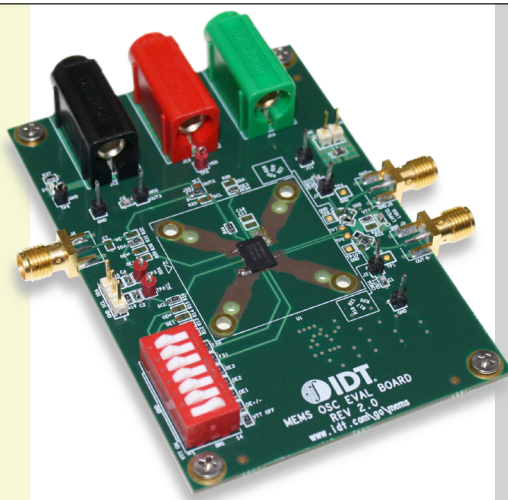
PACKAGE OUTLINE AND DIMENSIONS



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_REV0413

Mouser Electronics

Authorized Distributor

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IDT (Integrated Device Technology):

<u>4MA133330Y3BACTGI</u>	<u>4MA050000Z3AACTGI</u>	<u>4MA074250Z3AACUGI</u>	<u>4MA125000Y4AACTGI</u>
<u>4MA133330Y3BACUGI8</u>	<u>4MA233333Z4AACTGI</u>	<u>4MA150000Y3AACUGI</u>	<u>4MA400000Y3AACUGI</u>
<u>4MA400000Y3AACTGI8</u>	<u>4MA050000Z3AACTGI8</u>	<u>4MA074250Z4AACTGI</u>	<u>4MA125000Y4AACTGI8</u>
<u>4MA133330Z3AACTGI8</u>	<u>4MA150000Y3AACTGI</u>	<u>4MA133333Y3BACTGI8</u>	<u>4MA150000Y3AACUGI8</u>
<u>4MA074250Z4AACUGI8</u>	<u>4MA133330Z3AACTGI</u>	<u>4MA233333Z4AACUGI</u>	<u>4MA074250Z4AACTGI8</u>
<u>4MA074250Z3AACTGI</u>	<u>4MA074250Z3AACUGI8</u>	<u>4MA085000Z3AACUGI</u>	<u>4MA150000Y3AACTGI8</u>
<u>4MA400000Y3AACTGI</u>	<u>4MA133333Y3BACTGI</u>	<u>4MA133330Y3BACTGI8</u>	<u>4MA074250Z3AACTGI8</u>
<u>4MA085000Z3AACUGI8</u>	<u>4MA133330Y3BACUGI</u>	<u>4MA400000Y3AACUGI8</u>	<u>4MA050000Z3AACUGI8</u>
<u>4MA133330Z3AACUGI</u>	<u>4MA233333Z4AACTGI8</u>	<u>4MA133330Z3AACUGI8</u>	<u>4MA233333Z4AACUGI8</u>
<u>4MA074250Z4AACUGI</u>	<u>4MA085000Z3AACTGI8</u>	<u>4MA133333Y3BACUGI8</u>	<u>4MA133333Y3BACUGI</u>
<u>4MA085000Z3AACTGI</u>	<u>4MA050000Z3AACUGI</u>	<u>4MA125000Y4AACUGI</u>	<u>4MA125000Y4AACUGI8</u>