

100 fs
Phase Jitter!

**Ultra-Low Jitter
Plus-PPM Oscillator**

**REAL-TIME
FREQUENCY TUNING**

3.2 x 2.5mm Package Smallest high-performance package in the industry

3225 5032 7050

10GbE

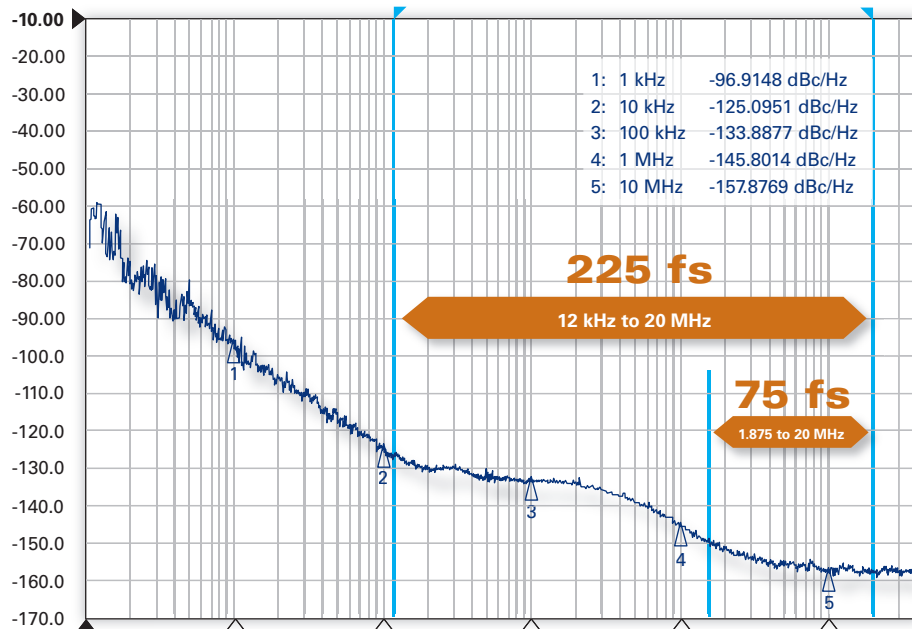
BENEFITS / FEATURES

- **Phase Jitter (156.25MHz)**
 - 100fs (1.875MHz to 20MHz)
 - 250fs (12KHz to 20MHz)
- **Real-Time Frequency Tuning**
Up to ± 1000 ppm on-the-fly frequency tuning
- **Any Frequency between:**
50-625 MHz range
- **LVDS / LVPECL Output**
- **Up to 40x Higher reliability than Quartz**
 - No activity dips, no zero time failures
 - High Shock and vibration resistance

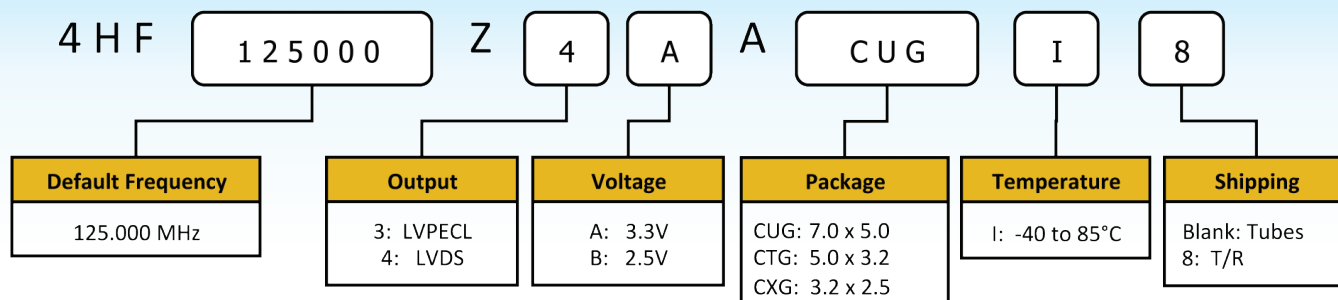
www.idt.com/go/MEMS

► PN 10.00dB/ Ref -10.00dBc/Hz

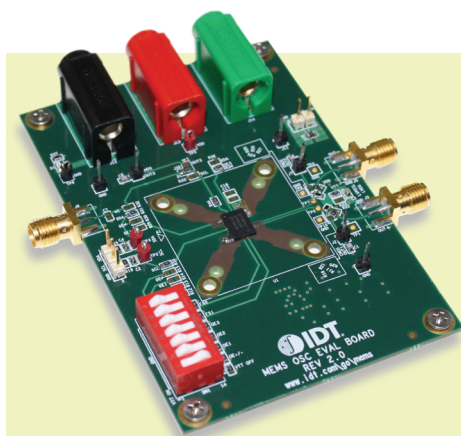
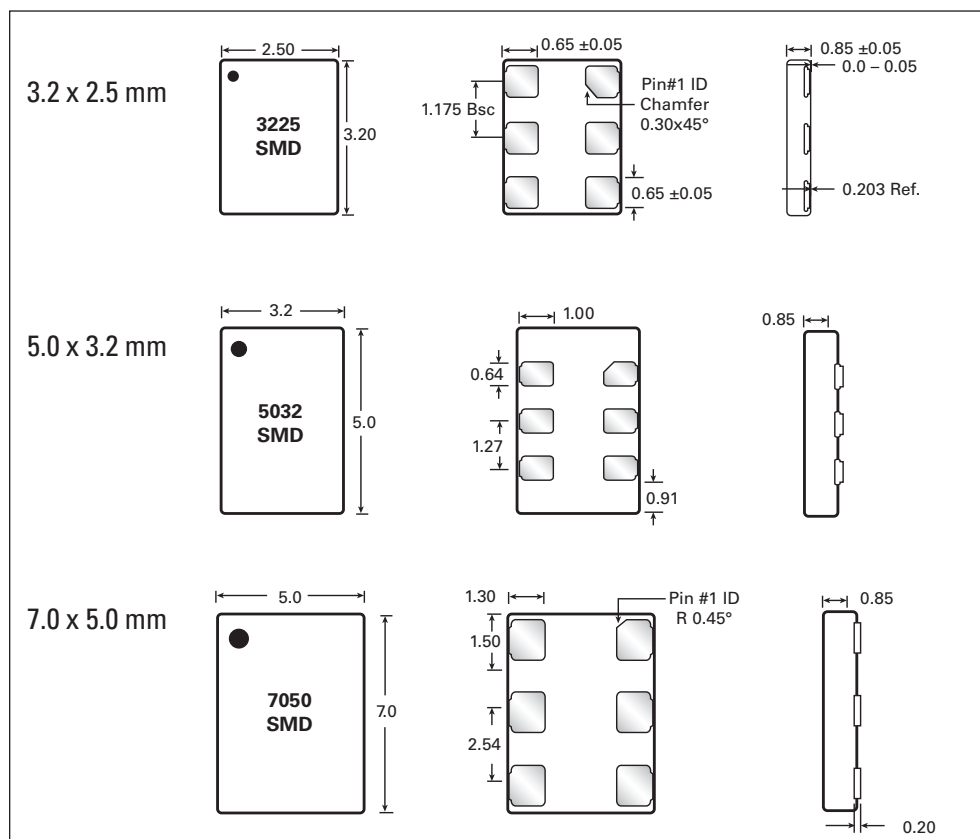
Carrier 156.250066 MHz 8.9050 dBm



PART ORDERING GUIDELINE



PACKAGE OUTLINE AND DIMENSIONS



MEMS OSCILLATOR EVALUATION BOARD

FEATURES

- Differential SMA output
- Standard banana plug power connectors
- Available in standard 3225, 5032 and 7050 size packages
- Selectable output termination for both LVDS and LVPECL
- Switch control for Output Enable (OE)

TECHNICAL SUPPORT

EMAIL: MEMS_Support@idt.com

WEBSITE: www.idt.com/go/MEMS



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PB_MEMS4H_REV0613

Mouser Electronics

Authorized Distributor

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IDT (Integrated Device Technology):

<u>4HF050000Z4AACXGI</u>	<u>4HF050000Z3AACTGI8</u>	<u>4HF050000Z3AACXGI8</u>	<u>4HF050000Z4AACTGI</u>
<u>4HF050000Z3BACXGI</u>	<u>4HF050000Z4BACTGI8</u>	<u>4HF500000Z4BACXGI8</u>	<u>4HF050000Z3BACUGI8</u>
<u>4HF133330Z3AACUGI</u>	<u>4HF133330Z3AACUGI8</u>	<u>4HF500000Z4BACUGI8</u>	<u>4HF050000Z3BACTGI8</u>
<u>4HF050000Z4AACXGI8</u>	<u>4HF500000Z4AACUGI</u>	<u>4HF500000Z4AACXGI8</u>	<u>4HF187510Z3AACTGI</u>
<u>4HF500000Z4AACUGI8</u>	<u>4HF500000Z4AACTGI</u>	<u>4HF500000Z4AACTGI8</u>	<u>4HF500000Z4BACTGI</u>
<u>4HF187510Z3AACTGI8</u>	<u>4HF050000Z4AACTGI8</u>	<u>4HF050000Z4AACUGI</u>	<u>4HF050000Z3AACXGI</u>
<u>4HF500000Z4AACXGI</u>	<u>4HF500000Z4BACUGI</u>	<u>4HF500000Z4BACXGI</u>	<u>4HF050000Z4BACUGI8</u>
<u>4HF050000Z3BACUGI</u>	<u>4HF050000Z4AACUGI8</u>	<u>4HF050000Z4BACUGI</u>	<u>4HF050000Z4BACXGI</u>
<u>4HF050000Z3BACTGI</u>	<u>4HF187510Z3AACUGI</u>	<u>4HF500000Z4BACTGI8</u>	<u>4HF050000Z3AACUGI8</u>
<u>4HF050000Z3AACTGI</u>	<u>4HF050000Z3BACXGI8</u>	<u>4HF133330Z3AACTGI8</u>	<u>4HF050000Z3AACUGI</u>
<u>4HF187510Z3AACUGI8</u>	<u>4HF050000Z4BACTGI</u>	<u>4HF050000Z4BACXGI8</u>	<u>4HF133330Z3AACTGI</u>