



### Krautkramer Transducer Certification

Compliant to ASTM E-1065 Guidelines

**Date:** 2/12/2013  
**Product Code:** 389-024-410  
**Serial Number:** 13B0007K  
**Description:** SPFPA-DFR4 5/50"

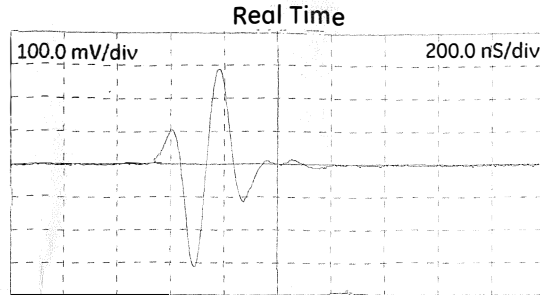
Test Setup--  
**Test Target:** Delay  
**Energy:** 2  
**Impedance:** 50 Ohms

Equipment Used:  
**UTA Pulser:** UTA5  
**UTA S/N:** MM00114  
**UTA Cal Due Date:** 9/17/2013  
**O-scope SN:** B012087  
**O-scope Cal Due Date:** 10/31/2013

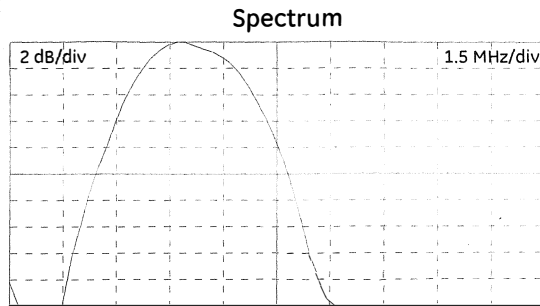
**Software:** FNT0040 **Rev:** H

Test Data--  
**Sensitivity(Abs db):** -22.40 dB  
**Pulse Duration@-20dB:** 3.55E-07 Sec  
**Peak Frequency:** 4.64E+06 Hz  
**Center Frequency:** 5.00E+06 Hz  
**% Bandwidth@-6dB:** 82.0 %

**Inspector:** CY



Waveform is the first Return Echo from the indicated target.



The accuracy of the transducer described above has been confirmed by factory standard test equipment and laboratory reference standards traceable to the National Institute of Standards and Technology. The uncertainty factor of the block standards used does not exceed 25% of the tolerance of the characteristic being verified. This facility's Quality System is registered to ISO 9001-2008, and is compliant to MIL-STD-45662A and ANSI/NCCL Z540-1-1994.

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