



**TEKTRONIX 067-0625-00
PEAK TO PEAK DETECTOR**

CORRECTION FACTORS AND UNCERTAINTIES

CORRECTION FACTORS

When making measurements use the correction factors provided with the calibration of your peak to peak detector in the following equation to determine the actual change in voltage (ΔV).

$$\Delta V (\%) = \frac{\text{Detector Output (mv)}}{10 \text{ mv}} + \text{Correction Factor } (\%)$$

ΔV : Voltage deviation (%) the generator would deliver to a $50.0 + j0 \Omega$ load.

note: Tests are performed with a floating $2 \text{ M}\Omega$ load across the detector outputs.

Example: After the generator has been adjusted at 50 kHz for 0 mVdc detector output (0.0%), the frequency is changed to 100 MHz. The detector output voltage is now +8 mV, which is equivalent to +0.8% input voltage deviation. If the 100 MHz correction factor is -0.3%, then the actual generator deviation is +0.5% from the 50 kHz reference.

MEASUREMENT UNCERTAINTIES:

| | |
|-------|------------------|
| 0.25% | 50 kHz to 10 MHz |
| 0.5% | 10 to 30 MHz |
| 0.8% | 30 to 100 MHz |
| 1.0% | 100 to 250 MHz |
| 3.0% | 250 to 500 MHz |

note: measurement uncertainties listed are valid only when correction factors are used

TEKTRONIX

Tektronix 067-0625-00

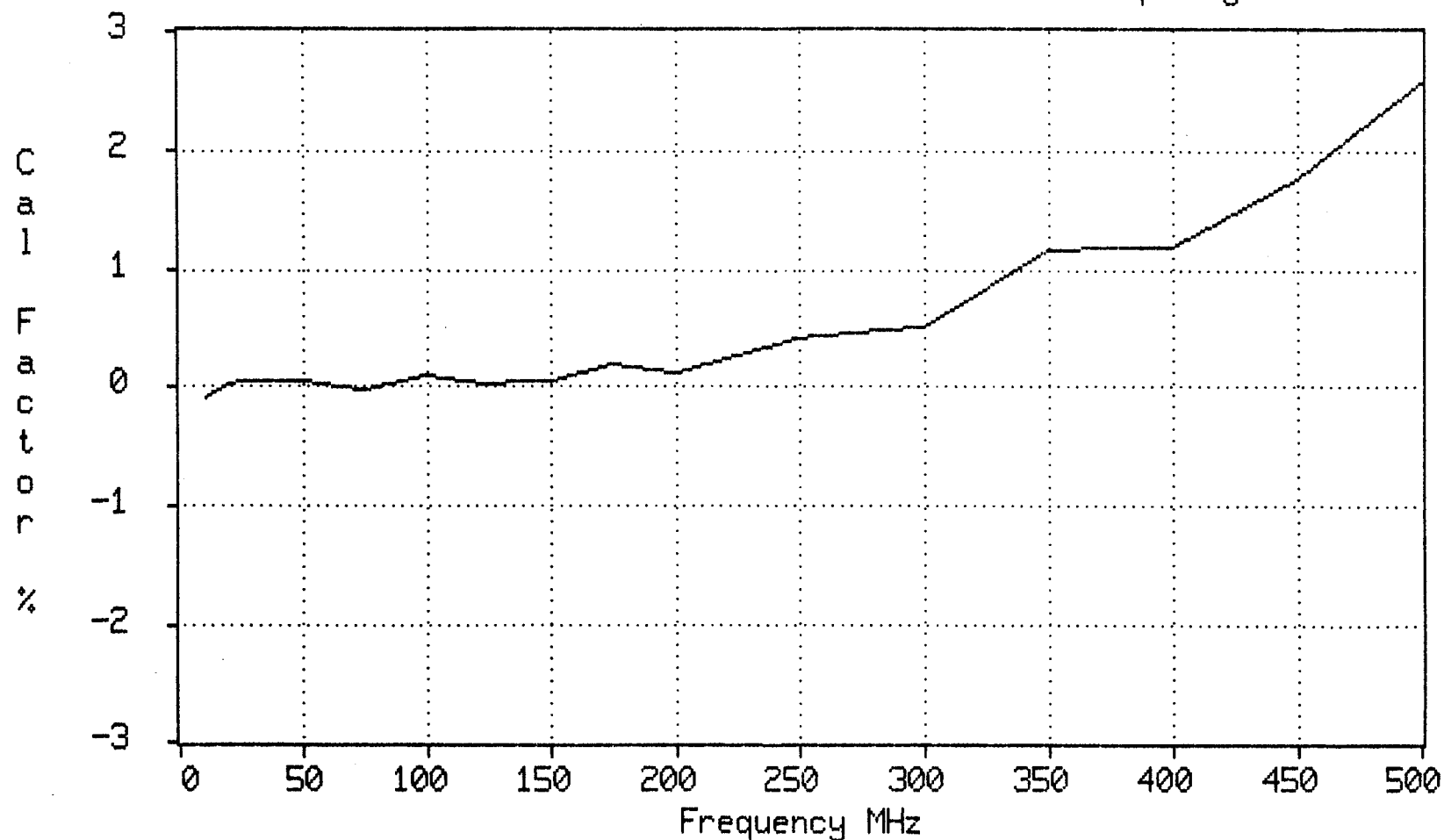
Cal Date: 21-OCT-1998

Serial Number: 116

Technician: LARRY TURNER

Certificate Number: 88162-1

P-P Detector Calibration Factor (%) VS Frequency



1.2V —

CALIBRATION DATA

Scan by Zenith

067-0625-00

Cal Date: 21-OCT-1998

Serial Number: 116

Certificate Number: 88162-1

CORRECTION FACTORS (Flatness) @1.2V P-P (direct input)

| Freq MHz | Correction % |
|-------------|-----------------|
| 10 | -0.1 |
| 20 | +0.0 |
| 30 | +0.1 |
| 50 | +0.1 |
| 75 | -0.0 |
| 100 | +0.1 |
| 125 | +0.0 |
| 150 | +0.1 |
| 175 | +0.2 |
| 200 | +0.1 |
| 225 | +0.3 |
| 250 | +0.4 |
| 300 | +0.5 |
| 350 | +1.2 |
| 400 | +1.2 |
| 450 | +1.8 |
| 500 | +2.6 |

Interpolate For Frequencies Between Data Points
Technician: LARRY TURNER



TEKTRONIX INC BEAVERTON SVC CT
Beaverton Metrology Center
Howard Vollum Park
M/S 78-620
Beaverton, OR 97077
503-627-6630
503-627-6576 Fax

Scan by Zenith 17349

981105
[Signature]

Certificate of Traceable Calibration

Certificate #: 88162-1-067062500-116-1

PO#/Contract#: 17349

Customer: Tektronix AB
Isafjordsgatan 15, 5tr
Box 78
164 94 KISTA
..
Sweden

Model: 067062500

Description: FIXTURE,CAL; PEAK TO PEAK DETECTOR

Manufacturer: TEKTRONIX, INC.

Serial: 116

Asset: 01382

Contact: ANN-BRITT NYLANDER

Site of Calibration: SERVICE CENTER

Calibration Interval Source: TEKTRONIX RECOMMENDED

Customer's Equipment Location: -

Cal Date: 21-Oct-1998

Due Date: 21-Jul-1999

Temperature: 70 °F

Humidity: 26 %

Calibration Interval: 273 DAYS

Tektronix certifies the above instrument meets or exceeds published measurement specifications (unless otherwise noted) and has been calibrated using standards traceable to the National Institute of Standards and Technology. The policies and procedures at this facility comply with ANSI/NCSL Z540-1-1994 (ISO Guide 25). This certificate shall not be reproduced except in full, without the written approval of the calibration facility.

INSTRUMENT CONDITION:

Received: IN TOLERANCE

Returned: IN TOLERANCE

Scan by Zenith
**Certificate of
Traceable Calibration**

Certificate #: 88162-1-067062500-116-1

CALIBRATION PROCEDURE:

TEKTRONIX CALIBRATION PROCEDURE - MANUFACTURERS SPECIFICATIONS
PROCEDURE REVISION LEVEL : P-PSYS2.1

CALIBRATION EQUIPMENT USED:

| <u>Model Type</u> | <u>Serial Number</u> | <u>Manufacturer</u> | <u>Cal Date</u> | <u>Due Date</u> |
|-------------------|----------------------|---------------------|-----------------|-----------------|
| 067062500 | 0000989 | TEKTRONIX. INC. | 29-Aug-1998 | 29-Nov-1998 |
| DM5110 | H700643 | TEKTRONIX. INC. | 17-Jun-1998 | 17-Jun-1999 |
| SG5030 | B010751 | TEKTRONIX. INC. | 31-Dec-1997 | 31-Dec-1998 |
| 67B50 | 013001 | WILTRON | 20-Nov-1997 | 20-Nov-1998 |

Issued By:

Donald K. Siebert

Calibrated By: LARRY TURNER

Service Manager: RANDY VAN WIE

For

Date Printed: 21-Oct-1998