Kalibrier-Zertifikat Calibration Certificate 123456

Gegenstand Object	Scopemeter
Hersteller Manufacturer	Fluke
Typ Type description	Scopemeter 199C
Serien Nr. Serial no.	123456
Inventar Nr. Inventory no.	123456
Prüfmittel Nr. Test equipment no.	123456
Equipment Nr. Equipment no.	123456
Standort Location	---
Auftraggeber Customer	Mustermann GmbH DE-123456 Musterstadt
Kunden Nr. Customer ID no.	123456
Auftrags Nr. Order no.	123456
Datum der Kalibrierung Date of calibration	23.05.2012
Datum der empfohlenen Rekalibrierung Date of the recommended re-calibration	23.05.2014

Hiermit bestätigen wir, dass das durchführende Kalibrierlabor ein Managementsystem nach **ISO 9001:2008,** sowie **ISO/IEC 17025:2005** eingeführt hat. Die Urkunden finden Sie auf www.testotis.de. Die für die Kalibrierung verwendeten Messeinrichtungen werden regelmäßig kalibriert und sind rückführbar auf die nationalen Normale der Physikalisch Technischen Bundesanstalt (PTB) Deutschlands oder auf andere nationale Normale. Wo keine nationalen Normale existieren, entspricht das Messverfahren den derzeit gültigen technischen Regeln und Normen. Die für diesen Vorgang angefertigte Dokumentation kann eingesehen werden. Alle erforderlichen Messdaten sind auf der(n) nachfolgenden Seite(n) dieses Kalibrier-Zertifikats aufgelistet.

Hereby we confirm that the performing calibration labratory is working with a management system according to **ISO 9001:2008** and **ISO/IEC 17025:2005**. Accreditation certificates can be found under www.testotis.de. The measuring installations used for calibration are regularly calibrated and traceable to the national standards of the German Federal Physical Technical Institute (PTB) or other national standards. Should no national standards exist, the measuring procedure corresponds with the technical regulations and norms valid at the time of the measurement. The documents established for this procedure are available for viewing. All the necessary measured data can be found on the following page(s) of this calibration certificate.

Konformitätsaussage conformity

☒ Messwert(e) innerhalb der zulässigen Abweichung[1]. Measured value(s) within the allowed´deviation[1].

☐ Messwert(e) außerhalb der zulässigen Abweichung[1]. Measured value(s) beyond the allowed deviation[1].

[1]) Die Messunsicherheit wurde nach GUM mit dem Erweiterungsfaktor k=2 berechnet und enthält die Unsicherheit des Verfahrens sowie die Unsicherheit des Prüflings. Die Konformitätsaussage erfolgte nach DIN EN ISO 14253-1 gemäß der Kalibrieranweisung QSA 7.5-02.
[1]) The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system. The statement of conformity was made according to DIN EN ISO 14253-1 according to calibration instruction QSA 7.5-02.

Dieser Kalibrierschein darf nur vollständig weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift und Stempel haben keine Gültigkeit.
This calibration certificate may not be reproduced other than in full except with permission of the issuing laboratory. Calibration certificates without signature and seal are not valid.

V 2.4

Stempel seal

TESTO INDUSTRIAL SERVICES testo KIRCHZARTEN

Fachverantwortlicher supervisor

Max Mustermann

Bearbeiter technician

Max Mustermann

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Messeinrichtungen measuring equipment

Referenz reference	Rückführung traceability	Rekal. next cal.	Zertifikat-Nr. certificate-no.	Eq.-Nr. eq-no.
Calibrator Fluke Corporation 5520A-SC1100	UKAS-0147 2011-09	2012-10	732297	10516660

*Referenzzertifikate sind auf www.primasonline.de abrufbar Reference certificates are available at www.primasonline.com

Umgebungsbedingungen ambient conditions

Temperatur temperature 22...24 °C
Feuchte humidity 20...60 %rF (%RH)

Messverfahren measuring procedure

Prüfprozedur procedure fluke:199C:Tis:5520+SC600 / Rev.:1.4

Messergebnisse measuring results

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Besondere Bemerkungen special remarks

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %		Messunsicherheit (k=2) measuring uncertainty (k=2)
INSTALLED INSTRUMENT FIRMWARE							
Firmware Version: V08.04							
Result of Operator Evaluation						i.O.	
Result of Operator Evaluation						i.O.	
Result of Operator Evaluation						i.O.	
Input A							
	12.000 mV	2 mV/div	12.00 mV	0.380 mV	0%	i.O.	$580 \cdot 10^{-6}$
	30.000 mV	5 mV/div	30.20 mV	0.650 mV	31%	i.O.	$240 \cdot 10^{-6}$
	60.000 mV	10 mV/div	60.80 mV	1.300 mV	62%	i.O.	$130 \cdot 10^{-6}$
	120.00 mV	20 mV/div	120.0 mV	2.60 mV	0%	i.O.	$480 \cdot 10^{-6}$
	300.00 mV	50 mV/div	300.0 mV	6.50 mV	0%	i.O.	$200 \cdot 10^{-6}$
	600.00 mV	100 mV/div	600.0 mV	13.00 mV	0%	i.O.	$100 \cdot 10^{-6}$
	1.2000 V	200 mV/div	1.208 V	0.0260 V	31%	i.O.	$480 \cdot 10^{-6}$
	3.0000 V	500 mV/div	3.020 V	0.0650 V	31%	i.O.	$190 \cdot 10^{-6}$
	6.0000 V	1 V/div	6.040 V	0.1300 V	31%	i.O.	$100 \cdot 10^{-6}$
	12.000 V	2 V/div	12.08 V	0.260 V	31%	i.O.	$480 \cdot 10^{-6}$
	30.000 V	5 V/div	29.80 V	0.650 V	31%	i.O.	$190 \cdot 10^{-6}$
	60.000 V	10 V/div	60.00 V	1.300 V	0%	i.O.	$100 \cdot 10^{-6}$
	120.00 V	20 V/div	120.0 V	2.60 V	0%	i.O.	$480 \cdot 10^{-6}$
	300.00 V	50 V/div	300.0 V	6.50 V	0%	i.O.	$190 \cdot 10^{-6}$
	600.00 V	100 V/div	600.0 V	13.00 V	0%	i.O.	$100 \cdot 10^{-6}$
Input B							
	12.000 mV	2 mV/div	12.00 mV	0.380 mV	0%	i.O.	$580 \cdot 10^{-6}$
	30.000 mV	5 mV/div	30.00 mV	0.650 mV	0%	i.O.	$240 \cdot 10^{-6}$
	60.000 mV	10 mV/div	59.60 mV	1.300 mV	31%	i.O.	$130 \cdot 10^{-6}$
	120.00 mV	20 mV/div	119.2 mV	2.60 mV	31%	i.O.	$480 \cdot 10^{-6}$
	300.00 mV	50 mV/div	297.0 mV	6.50 mV	46%	i.O.	$200 \cdot 10^{-6}$
	600.00 mV	100 mV/div	594.0 mV	13.00 mV	46%	i.O.	$100 \cdot 10^{-6}$
	1.2000 V	200 mV/div	1.192 V	0.0260 V	31%	i.O.	$480 \cdot 10^{-6}$
	3.0000 V	500 mV/div	2.970 V	0.0650 V	46%	i.O.	$190 \cdot 10^{-6}$
	6.0000 V	1 V/div	5.920 V	0.1300 V	62%	i.O.	$100 \cdot 10^{-6}$
	12.000 V	2 V/div	11.92 V	0.260 V	31%	i.O.	$480 \cdot 10^{-6}$
	30.000 V	5 V/div	29.50 V	0.650 V	77%	i.O.	$190 \cdot 10^{-6}$
	60.000 V	10 V/div	59.60 V	1.300 V	31%	i.O.	$100 \cdot 10^{-6}$
	120.00 V	20 V/div	119.6 V	2.60 V	15%	i.O.	$480 \cdot 10^{-6}$
	300.00 V	50 V/div	301.0 V	6.50 V	15%	i.O.	$190 \cdot 10^{-6}$
	600.00 V	100 V/div	598.0 V	13.00 V	15%	i.O.	$100 \cdot 10^{-6}$
DC VOLTAGE ACCURACY TEST							
Input A							
6 mV	6.00 mV	2 mV/div	6.0 mV	0.59 mV	0%	i.O.	$9{,}7 \cdot 10^{-3}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
6 mV	-6.00 mV	2 mV/div	-6.0 mV	0.59 mV	0% i.O.	$9{,}7 \cdot 10^{-3}$
15 mV	15.00 mV	5 mV/div	14.9 mV	0.725 mV	14% i.O.	$3{,}9 \cdot 10^{-3}$
15 mV	-15.00 mV	5 mV/div	-14.9 mV	0.725 mV	14% i.O.	$3{,}9 \cdot 10^{-3}$
30 mV	30.00 mV	10 mV/div	30.0 mV	0.95 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
30 mV	-30.00 mV	10 mV/div	-30.0 mV	0.95 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
60 mV	60.00 mV	20 mV/div	60.0 mV	1.40 mV	0% i.O.	$970 \cdot 10^{-6}$
60 mV	-60.00 mV	20 mV/div	-60.2 mV	1.40 mV	14% i.O.	$970 \cdot 10^{-6}$
150 mV	150.0 mV	50 mV/div	150 mV	7.25 mV	7% i.O.	$3{,}9 \cdot 10^{-3}$
150 mV	-150.0 mV	50 mV/div	-150 mV	7.25 mV	6% i.O.	$3{,}9 \cdot 10^{-3}$
300 mV	300.0 mV	100 mV/div	300 mV	9.0 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
300 mV	-300.0 mV	100 mV/div	-300 mV	9.0 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
600 mV	600.0 mV	200 mV/div	599 mV	14.0 mV	7% i.O.	$970 \cdot 10^{-6}$
600 mV	-600.0 mV	200 mV/div	-602 mV	14.0 mV	14% i.O.	$970 \cdot 10^{-6}$
1.5 V	1.500 V	500 mV/div	1.50 V	0.0725 V	6% i.O.	$3{,}9 \cdot 10^{-3}$
1.5 V	-1.500 V	500 mV/div	-1.50 V	0.0725 V	7% i.O.	$3{,}9 \cdot 10^{-3}$
3 V	3.000 V	1 V/div	3.00 V	0.090 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
3 V	-3.000 V	1 V/div	-3.00 V	0.090 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
6 V	6.000 V	2 V/div	5.99 V	0.140 V	7% i.O.	$970 \cdot 10^{-6}$
6 V	-6.000 V	2 V/div	-6.01 V	0.140 V	7% i.O.	$970 \cdot 10^{-6}$
15 V	15.00 V	5 V/div	15.0 V	0.725 V	6% i.O.	$3{,}9 \cdot 10^{-3}$
15 V	-15.00 V	5 V/div	-15.1 V	0.725 V	11% i.O.	$3{,}9 \cdot 10^{-3}$
30 V	30.00 V	10 V/div	30.0 V	0.95 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
30 V	-30.00 V	10 V/div	-30.1 V	0.95 V	11% i.O.	$1{,}9 \cdot 10^{-3}$
60 V	60.00 V	20 V/div	60.0 V	1.40 V	0% i.O.	$970 \cdot 10^{-6}$
60 V	-60.00 V	20 V/div	-60.0 V	1.40 V	0% i.O.	$970 \cdot 10^{-6}$
150 V	150.0 V	50 V/div	150 V	7.25 V	3% i.O.	$3{,}9 \cdot 10^{-3}$
150 V	-150.0 V	50 V/div	-151 V	7.25 V	7% i.O.	$3{,}9 \cdot 10^{-3}$
300 V	300.0 V	100 V/div	300 V	9.0 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
300 V	-300.0 V	100 V/div	-301 V	9.0 V	11% i.O.	$1{,}9 \cdot 10^{-3}$
Input B						
6 mV	6.00 mV	2 mV/div	6.0 mV	0.59 mV	0% i.O.	$9{,}7 \cdot 10^{-3}$
6 mV	-6.00 mV	2 mV/div	-6.0 mV	0.59 mV	0% i.O.	$9{,}7 \cdot 10^{-3}$
15 mV	15.00 mV	5 mV/div	15.0 mV	0.725 mV	0% i.O.	$3{,}9 \cdot 10^{-3}$
15 mV	-15.00 mV	5 mV/div	-15.0 mV	0.725 mV	0% i.O.	$3{,}9 \cdot 10^{-3}$
30 mV	30.00 mV	10 mV/div	30.0 mV	0.95 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
30 mV	-30.00 mV	10 mV/div	-30.0 mV	0.95 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
60 mV	60.00 mV	20 mV/div	59.9 mV	1.40 mV	7% i.O.	$970 \cdot 10^{-6}$
60 mV	-60.00 mV	20 mV/div	-60.0 mV	1.40 mV	0% i.O.	$970 \cdot 10^{-6}$
150 mV	150.0 mV	50 mV/div	150 mV	7.25 mV	4% i.O.	$3{,}9 \cdot 10^{-3}$
150 mV	-150.0 mV	50 mV/div	-150 mV	7.25 mV	0% i.O.	$3{,}9 \cdot 10^{-3}$
300 mV	300.0 mV	100 mV/div	300 mV	9.0 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
300 mV	-300.0 mV	100 mV/div	-300 mV	9.0 mV	0% i.O.	$1{,}9 \cdot 10^{-3}$
600 mV	600.0 mV	200 mV/div	600 mV	14.0 mV	0% i.O.	$970 \cdot 10^{-6}$
600 mV	-600.0 mV	200 mV/div	-600 mV	14.0 mV	0% i.O.	$970 \cdot 10^{-6}$
1.5 V	1.500 V	500 mV/div	1.50 V	0.0725 V	4% i.O.	$3{,}9 \cdot 10^{-3}$
1.5 V	-1.500 V	500 mV/div	-1.50 V	0.0725 V	4% i.O.	$3{,}9 \cdot 10^{-3}$
3 V	3.000 V	1 V/div	3.00 V	0.090 V	0% i.O.	$1{,}9 \cdot 10^{-3}$

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3 V	-3.000 V	1 V/div	-3.00 V	0.090 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
6 V	6.000 V	2 V/div	5.99 V	0.140 V	7% i.O.	$970 \cdot 10^{-6}$
6 V	-6.000 V	2 V/div	-6.01 V	0.140 V	7% i.O.	$970 \cdot 10^{-6}$
15 V	15.00 V	5 V/div	15.0 V	0.725 V	6% i.O.	$3{,}9 \cdot 10^{-3}$
15 V	-15.00 V	5 V/div	-15.0 V	0.725 V	3% i.O.	$3{,}9 \cdot 10^{-3}$
30 V	30.00 V	10 V/div	30.0 V	0.95 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
30 V	-30.00 V	10 V/div	-29.9 V	0.95 V	11% i.O.	$1{,}9 \cdot 10^{-3}$
60 V	60.00 V	20 V/div	59.9 V	1.40 V	7% i.O.	$970 \cdot 10^{-6}$
60 V	-60.00 V	20 V/div	-60.0 V	1.40 V	0% i.O.	$970 \cdot 10^{-6}$
150 V	150.0 V	50 V/div	150 V	7.25 V	4% i.O.	$3{,}9 \cdot 10^{-3}$
150 V	-150.0 V	50 V/div	-150 V	7.25 V	4% i.O.	$3{,}9 \cdot 10^{-3}$
300 V	300.0 V	100 V/div	300 V	9.0 V	0% i.O.	$1{,}9 \cdot 10^{-3}$
300 V	-300.0 V	100 V/div	-300 V	9.0 V	0% i.O.	$1{,}9 \cdot 10^{-3}$

AC VOLTAGE ACCURACY TEST (LF)

All AC (LF) tests @ 20 kHz except as noted

Input A

4.00 mV	2 mV/div(60)	4.0 mV	1.70 mV	0% i.O.	$15 \cdot 10^{-3}$
10.00 mV	5 mV/div	9.9 mV	1.70 mV	6% i.O.	$5{,}8 \cdot 10^{-3}$
20.00 mV	10 mV/div	19.9 mV	2.00 mV	5% i.O.	$2{,}9 \cdot 10^{-3}$
40.00 mV	20 mV/div	39.9 mV	2.50 mV	4% i.O.	$1{,}5 \cdot 10^{-3}$
100.00 mV	50 mV/div	99.5 mV	4.00 mV	13% i.O.	$610 \cdot 10^{-6}$
200.0 mV	100 mV/div	200 mV	20.0 mV	0% i.O.	$2{,}9 \cdot 10^{-3}$
400.0 mV	200 mV/div	401 mV	25.0 mV	4% i.O.	$1{,}5 \cdot 10^{-3}$
900.0 mV	500 mV/div	903 mV	37.0 mV	8% i.O.	$670 \cdot 10^{-6}$
900.0 mV	500 mV/div(60)	902 mV	23.0 mV	9% i.O.	$730 \cdot 10^{-6}$
2.000 V	1 V/div	2.00 V	0.200 V	0% i.O.	$2{,}9 \cdot 10^{-3}$
4.000 V	2 V/div	3.98 V	0.250 V	8% i.O.	$1{,}5 \cdot 10^{-3}$
9.000 V	5 V/div	8.99 V	0.370 V	3% i.O.	$690 \cdot 10^{-6}$
20.00 V	10 V/div	19.9 V	2.00 V	5% i.O.	$2{,}9 \cdot 10^{-3}$
40.00 V	20 V/div	39.6 V	2.50 V	16% i.O.	$1{,}5 \cdot 10^{-3}$
90.00 V	50 V/div	89.3 V	3.70 V	19% i.O.	$690 \cdot 10^{-6}$
200.0 V	100 V/div	198 V	20.0 V	10% i.O.	$2{,}9 \cdot 10^{-3}$

Input B

4.00 mV	2 mV/div(60)	4.0 mV	1.70 mV	0% i.O.	$15 \cdot 10^{-3}$
10.00 mV	5 mV/div	9.9 mV	1.70 mV	6% i.O.	$5{,}8 \cdot 10^{-3}$
20.00 mV	10 mV/div	19.9 mV	2.00 mV	5% i.O.	$2{,}9 \cdot 10^{-3}$
40.00 mV	20 mV/div	39.7 mV	2.50 mV	12% i.O.	$1{,}5 \cdot 10^{-3}$
100.00 mV	50 mV/div	99.2 mV	4.00 mV	20% i.O.	$610 \cdot 10^{-6}$
200.0 mV	100 mV/div	199 mV	20.0 mV	5% i.O.	$2{,}9 \cdot 10^{-3}$
400.0 mV	200 mV/div	398 mV	25.0 mV	8% i.O.	$1{,}5 \cdot 10^{-3}$
900.0 mV	500 mV/div	894 mV	37.0 mV	16% i.O.	$670 \cdot 10^{-6}$
900.0 mV	500 mV/div(60)	898 mV	23.0 mV	9% i.O.	$730 \cdot 10^{-6}$
2.000 V	1 V/div	1.99 V	0.200 V	5% i.O.	$2{,}9 \cdot 10^{-3}$
4.000 V	2 V/div	3.95 V	0.250 V	20% i.O.	$1{,}5 \cdot 10^{-3}$

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	9.000 V	5 V/div	8.89 V	0.370 V	30% i.O.	$690 \cdot 10^{-6}$
	20.00 V	10 V/div	19.8 V	2.00 V	10% i.O.	$2{,}9 \cdot 10^{-3}$
	40.00 V	20 V/div	39.3 V	2.50 V	28% i.O.	$1{,}5 \cdot 10^{-3}$
	90.00 V	50 V/div	88.4 V	3.70 V	43% i.O.	$690 \cdot 10^{-6}$
	200.0 V	100 V/div	197 V	20.0 V	15% i.O.	$2{,}9 \cdot 10^{-3}$
AC COUPLED LF TEST (500 mV/div						
Input A						
900 mV @ 5 Hz					i.O.	
	900.0 mV	60 Hz	902 mV	27.1 mV	7% i.O.	$730 \cdot 10^{-6}$
Input B						
900 mV @ 5 Hz					i.O.	
	900.0 mV	60 Hz	898 mV	27.1 mV	7% i.O.	$730 \cdot 10^{-6}$
PEAK MEASUREMENT TEST						
Input A						
1 Vpp	0.600 Vpp	100 mV/div	0.60 Vpp	0.040 Vpp	0% i.O.	$9{,}7 \cdot 10^{-3}$
Input B						
1 Vpp	0.600 Vpp	100 mV/div	0.59 Vpp	0.040 Vpp	25% i.O.	$9{,}7 \cdot 10^{-3}$
FREQUENCY MEASUREMENT ACCURACY TEST						
Input A						
	16.000 Hz	600 mVpp	16.00 Hz	0.100 Hz	0% i.O.	$810 \cdot 10^{-6}$
	200.00 MHz	300 mVpp	199.9 MHz	1.20 MHz	8% i.O.	$290 \cdot 10^{-6}$
Input B						
	16.000 Hz	600 mVpp	16.00 Hz	0.100 Hz	0% i.O.	$810 \cdot 10^{-6}$
	200.00 MHz	300 mVpp	200.0 MHz	1.20 MHz	0% i.O.	$290 \cdot 10^{-6}$
PHASE MEASUREMENT TEST						
Input A						
	0.0 °	10 Hz	-1 °	2.0 °	50% i.O.	
	0.0 °	1 MHz	-1 °	2.0 °	50% i.O.	
	0.0 °	10 MHz	1 °	3.0 °	33% i.O.	
Input B						
	0.0 °	10 Hz	1 °	2.0 °	50% i.O.	

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	0.0 °	1 MHz	1 °	2.0 °	50% i.O.	
	0.0 °	10 MHz	0 °	3.0 °	0% i.O.	
TIME BASE ACCURACY TEST						
10 µs/div.						
Result of Operator Evaluation					i.O.	
1 µs/div.						
Result of Operator Evaluation					i.O.	
INPUT A TRIGGER SENSITIVITY TEST						
5 MHz						
Triggered @ 0.5 div.					i.O.	
200 MHz						
Triggered @ 1 div.					i.O.	
250 MHz						
Triggered @ 2 div.					i.O.	
INPUT A AC VOLTAGE ACCURACY (HF) & BANDWIDTH TEST						
900 mV	900.0 mV	1 MHz	955 mV	65.0 mV	85% i.O.	$28 \cdot 10^{-3}$
900 mV	900.0 mV	25 MHz	970 mV	110.0 mV	64% i.O.	$28 \cdot 10^{-3}$
900 mV @ 200 MHz					i.O.	
INPUT B TRIGGER SENSITIVITY TEST						
5 MHz						
Triggered @ 0.5 div.					i.O.	
200 MHz						
Triggered @ 1 div.					i.O.	
250 MHz						
Triggered @ 2 div.					i.O.	
INPUT B AC VOLTAGE ACCURACY (HF) & BANDWIDTH TEST						
900 mV @ 200 MHz					i.O.	

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VIDEO TEST						
PAL Line 622						
Positive Trigger					i.O.	
PAL Line 310						
Positive Trigger					i.O.	
Negative Trigger					i.O.	
EXTERNAL TRIGGER LEVEL TEST						
Triggered @ 1.7V					i.O.	
METER DC VOLTAGE ACCURACY TEST						
500 mV Range						
500 mV	0.00 mV		0.2 mV	0.50 mV	40% i.O.	58 µV
500 mV	500.00 mV		500.9 mV	3.00 mV	30% i.O.	$120 \cdot 10^{-6}$
500 mV	-500.00 mV		-500.1 mV	3.00 mV	3% i.O.	$120 \cdot 10^{-6}$
5 V Range						
5 V	5.0000 V		5.004 V	0.0300 V	13% i.O.	$120 \cdot 10^{-6}$
5 V	-5.0000 V		-4.997 V	0.0300 V	10% i.O.	$120 \cdot 10^{-6}$
50 V Range						
50 V	50.000 V		50.04 V	0.300 V	13% i.O.	$120 \cdot 10^{-6}$
50 V	-50.000 V		-50.02 V	0.300 V	7% i.O.	$120 \cdot 10^{-6}$
500 V Range						
500 V	500.00 V		500.4 V	3.00 V	13% i.O.	$120 \cdot 10^{-6}$
500 V	-500.00 V		-499.7 V	3.00 V	10% i.O.	$120 \cdot 10^{-6}$
1100 V Range						
1100 V	1000.0 V		1003 V	10.0 V	30% i.O.	$580 \cdot 10^{-6}$
1100 V	-1000.0 V		-1002 V	10.0 V	20% i.O.	$580 \cdot 10^{-6}$
METER AC VOLTAGE ACCURACY TEST						
500 mV Range						
500 mV	500.00 mV	60 Hz	500.7 mV	6.00 mV	12% i.O.	$360 \cdot 10^{-6}$
500 mV	500.00 mV	1 kHz	499.8 mV	14.00 mV	1% i.O.	$360 \cdot 10^{-6}$
500.0 mV @ 10 kHz					i.O.	
5 V Range						

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
5 V	5.0000 V	60 Hz	5.001 V	0.0600 V	2% i.O.	$360 \cdot 10^{-6}$
5 V	5.0000 V	1 kHz	4.993 V	0.1400 V	5% i.O.	$360 \cdot 10^{-6}$
5.000 V @ 10 kHz					i.O.	
50 V Range						
50 V	50.000 V	60 Hz	49.99 V	0.600 V	2% i.O.	$420 \cdot 10^{-6}$
50 V	50.000 V	1 kHz	49.91 V	1.400 V	6% i.O.	$420 \cdot 10^{-6}$
50.00 V @ 10 kHz					i.O.	
500 V Range						
500 V	500.00 V	60 Hz	500.0 V	6.00 V	0% i.O.	$420 \cdot 10^{-6}$
500 V	500.00 V	1 kHz	499.3 V	14.00 V	5% i.O.	$420 \cdot 10^{-6}$
500.0 V @ 10 kHz					i.O.	
1100 V Range						
1100 V	1000.0 V	60 Hz	1003 V	20.0 V	15% i.O.	$700 \cdot 10^{-6}$
1100 V	1000.0 V	1 kHz	1001 V	40.0 V	3% i.O.	$700 \cdot 10^{-6}$
1000 V @ 10 kHz					i.O.	
CONTINUITY FUNCTION TEST						
Beeper On @ 20 Ohms					i.O.	
Beeper Off @ 80 Ohms					i.O.	
DIODE FUNCTION						
Current Test						
	500.00 mV		468.0 mV	100.00 mV	32% i.O.	
Voltage Test						
	1.0000 V		1.001 V	0.0250 V	4% i.O.	$580 \cdot 10^{-6}$
METER OHMS ACCURACY TEST						
500 Ohm Range						
500 Ohm	0.00 Ohm		0.1 Ohm	0.00 Ohm	20% i.O.	
500 Ohm	400.00 Ohm		400.4 Ohm	2.90 Ohm	14% i.O.	$150 \cdot 10^{-6}$
5 kOhm Range						
5 kOhm	4.0000 kOhm		4.004 kOhm	0.0290 kOhm	14% i.O.	$150 \cdot 10^{-6}$
50 kOhm Range						
50 kOhm	40.000 kOhm		40.04 kOhm	0.290 kOhm	14% i.O.	$150 \cdot 10^{-6}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
500 kOhm Range						
500 kOhm	400.00 kOhm		400.5 kOhm	2.90 kOhm	17% i.O.	$150 \cdot 10^{-6}$
5 MOhm Range						
5 MOhm	4.0000 MOhm		4.003 MOhm	0.0290 MOhm	10% i.O.	$250 \cdot 10^{-6}$
50 MOhm Range						
50 MOhm	30.000 MOhm		30.03 MOhm	0.230 MOhm	13% i.O.	$1{,}0 \cdot 10^{-3}$

Zulässige Abweichung gemäß Herstellerangabe
allowed deviation in accordance with manufacturer