R3172 Specifications

Frequency	
Frequency range: Preamplifier OFF	9 kHz to 26.5 GHz Harmonic order (N)
band 0:	9 kHz to 3.3 GHz 1
band 1:	3.2 to 7.1 GHz 1
band 2:	7 to 14.7 GHz 2
band 3: Preamplifier ON	14.5 to 26.5 GHz 4
band 0:	9 kHz to 3.3 GHz 1
Frequency reading accuracy (Start, Stop, CF, Marker):	± (Reading of frequency x Frequency reference accuracy + Span x Span accuracy + RBW x 0.15 + 60 Hz)
Counter	
Resolution:	1 Hz to 1 kHz
Accuracy:	± (Marker frequency x Frequency
	reference accuracy + Residual FM + 1 LSD) (S/N ≥25 dB, span ≤200 MHz)
Frequency reference accuracy	
Stability: Temperature stability:	±2 x 10 ⁻ ⁄year ±1 x 10 ⁻ (0 to +50°C)
Frequency span	
Range: Accuracy:	1 kHz to 26.5 GHz, 0 Hz (zero span) ≤±1%
Residual FM	
Zero span:	≤ (60 Hzp-p x N) /100 ms
Noise sideband	
Frequency ≤2.6 GHz:	≤-100 dBc/Hz
	(at 10 kHz offset, RBW 300 Hz (OPT.27))
5	≤-105 dBc/Hz (at 20 kHz offset)
Frequency >2.6 GHZ:	\leq (-98 + 20 login) dBC/HZ
	(a1 10 KHZ OTISEL, KBW 300 HZ (OP1.27))
	(at 20 kHz offset)
Resolution bandwidth at 3 dB	
Range:	1 kHz to 3 MHz (1-3-10 sequence)
Accuracy:	±20% 1 kHz to 1 MHz
Selectivity (60 dB:3 dB):	±25% 3 MHz <15 : 1
QP (6 dB) Range:	1 MHz, 120 kHz, 9 kHz (200 Hz (OPT.27))
Video bandwidth:	10 Hz to 3 MHz (1-3-10 sequence)
Amplitude range	
Measuring range	+30 dBm to displayed average noise level
Maximum input level	(Input attenuator ≥10 dB)
Preamplifier OFF:	+30 dBm, 0 VDC max.
Indication range	
Log: Linear:	10 x 10 div, 10, 5, 2, 1 dB/div 10% of reference level/div
Reference level range	
Preamplifier OFF:	(Input attenuator 0 to 70 dB)
Log:	-64 to +60 dBm (0.1 dB step)
Linear:	+141.1 μV to +223.6 V
Preamplifier ON:	(Input attenuator 0 to 30 dB)
Log: Linear:	-82 to +10 dBm (0.1 dB step) +17.76 μV to +707.1 mV
Input attenuator range:	0 to 70 dB (10 dB step)
Sweep	
Sween time:	10 ms to 1000 s
Sweep time.	(Sweep time under 20 ms can be set up at
	span 100 MHz or less)
Accuracy:	±2%
Trigger mode:	FREE RUN, LINE, VIDEO, EXT, TV

REPEAT, SINGLE

Sweep mode:

Dynamic range Displayed average noise level: RBW 1 kHz, VBW 10 Hz, input attenuator 0 dB, $f \ge 10$ MHz Preamplifier OFF 10 MHz to 3.3 GHz (band 0): -117 dBm + 2 f (GHz) dB⁻¹ 3.2 to 7.1 GHz (band 1): -112 dBm⁻¹

3.2 to 7.1 Onz (band 1).	
7 to 14.7 GHz (band 2):	-111 dBm ^{*1}
14.5 to 22 GHz (band 3):	-107 dBm ^{*1}
22 to 26.5 GHz (band 3):	-104 dBm ^{*1}
Preamplifier ON	
1 MHz to 3.3 GHz:	-132 dBm + 3 f (GHz) dB
1 dB gain compression	
Preamplifier OFF	
200 MHz to 3.3 GHz (band 0):	>0 dBm (mixer input level)
3.2 to 26.5 GHz (band 1 to 3):	>-5 dBm (mixer input level)
Preamplifier ON	(Input attenuator 0 to 30 dB)
200 MHz to 3.3 GHz (band 0):	>-25 dBm (RF input level)

Spurious response: preamplifier OFF

Second harmonic distortion:

Frequency range	Mixer level Distortion leve			
100 to 800 MHz	-30 dBm	≤-70 dBc		
≥800 MHz (band 0)	-30 dBm	≤-80 dBc		
≥3.3 GHz	-10 dBm	≤-100 dBc		
Third order intermodulation				
distortion:	≤-80 dBc (200 M	≤-80 dBc (200 MHz to 3.3 GHz, band 0)		
	≤-70 dBc (3.2 to	26.5 GHz, band 1 to 3)		
	(mixer input le	vel -30 dBm,		
	two signal difference >50 kHz)			
Image/Multiple/	-			
Out of band response:	<-70 dBc (10 MHz ≤ f ≤18 GHz) <-60 dBc (18 GHz < f ≤23 GHz) <-50 dBc (23 GHz < f ≤26.5 GHz)			
•				
Residual response:	(Input terminat	ed 50 Ω , input attenuator		
·	0 dB, f ≥1 MHz)			
Preamplifier OFF:	eamplifier OFF: ≤-100 dBm (band 0)			
-	≤-90 dBm (ban	d 1 to 3)		
Preamplifier ON:	≤-105 dBm (band 0)			

*1: For a temperature range of 20 to 30°C. Add 2 dB for a temperature range of 0 to 50°C.

Amplitude accuracy Frequency response

(after calibration and preselector peak, attenuator 10 dB) Preamplifier OFF

	Relative		Absolute ^{*2}	
riequency range	20 to 30°C	0 to 50°C	20 to 30°C	0 to 50°C
100 kHz to 3 GHz 9 kHz to 3.3 GHz 3.3 to 7.1 GHz 7.1 to 14.7 GHz 14 7 to 26 5 GHz	±0.5 dB ±1.5 dB ±1.6 dB ±1.8 dB ±2.5 dB	±1.0 dB ±2.0 dB ±1.8 dB ±2.0 dB +3.0 dB	±0.6 dB ±1.5 dB ±1.8 dB ±2.0 dB +3.0 dB	±1.0 dB ±2.0 dB ±2.5 dB ±3.0 dB +4 0 dB

Preamplifier ON

Fraguanavranda	Relative		Absolute ^{*2}		
riequency range	20 to 30°C	0 to 50°C	20 to 30°C	0 to 50°C	
100 kHz to 2.7 GHz 9 kHz to 3.3 GHz	±1.0 dB ±2.0 dB	±1.0 dB ±2.0 dB	±1.0 dB ±2.0 dB	±1.0 dB ±2.0 dB	
Calibration signal leve	l accuracy: -20	dBm ±0.3 dl	В		
IF gain error (after automatic calibration): ±0.5 dB					
Scale indication accuracy (after automatic calibration) Log: ±1.5/90 dB, ±1.0/10 dB, ±0.2/1 dB Liner: ±5% of reference level					
Input ATT switching error:		$\leq \pm 1.1/10$ dB, 2 dB max. (9 kHz to 12 GHz) $\leq \pm 1.3/10$ dB, 2.5 dB max. (12 to 18 GHz) $\leq \pm 1.8/10$ dB, 3.5 dB max. (18 to 26.5GHz) in reference to an attenuation of 10dB at 30 MHz			

*2: In reference to 30 MHz calibration signal.

Resolution bandwidth switchinglevel error (after automatic calibration):	+0.5 dB
	20.0 00
Total level accuracy Preamplifier OFF:	±1.5 dB (REF = -50 to 0 dBm, ATT = 10 dB, 2 dB/div, RBW = 300 kHz, f = 100 kHz to 3 GHz, after automatic calibration)
I/O	
RF input	
Connector: Impedance:	N connector (female) (changeable to SMA female) 50 Ω (nominal)
Preamplifier OFF:	<1.5 : 1 (9 kHz to 3.3 GHz, band 0) (typical) <2 : 1 (3.2 to 26.5 GHz, band 1 to 3) (typical) with input ATT 10 to 70 dB
Preamplifier ON:	<2.5 : 1 (9 kHz to 3.3 GHz, band 0) (typical)
Probe power:	±12 V (nominal), 4-pin connector
Calibration output signal:	BNC female, 50 Ω (nominal) 30 MHz, -20 dBm
10MHz reference input:	BNC female, 500 Ω (nominal) -10 to +10 dBm
External trigger input:	BNC female
Y axis output:	BNC female Approx. 2 V in full scale (10 dB/div)
Phone output:	Small size monophonic female
GPIB interface:	IEEE-488 BUS connector
Serial interface:	D-Sub 9-pins
Printer interface:	D-Sub 25-pins, ESC/P, ESC/P-R, PCL
Video output:	VGA (15-pins, female)
Floppy disk:	3.5-inch, MS-DOS format
General specifications	
Operating temperature:	0 to +50°C Relative humidity 85% or less (no condensation)
Storage temperature:	-20 to +60°C, Relative humidity 85% or less

Options OPT.16 to 20, 27, 29 or 73, please refer options for R3182 (page 16 to 17).

OPT.03 Local signal ou	tput for external mixer
Frequency range:	4.0 to 7.6 GHz
Output level:	>+8 dBm
Output impedance:	50 Ω (nominal)
Connector:	SMA female
OPT.74 Tracking gener	ator
Frequency range:	100 kHz to 3 GHz
Output level range:	0 to -59.9 dBm
Output level accuracy:	±0.5 dB (30 MHz, -10 dBm, +20 to +30°C)
Output level flatness:	±1.0 dB (100 kHz to 1 GHz) ±1.5 dB (100 kHz to 3 GHz) (reference signal level: -10 dBm, frequency: 30 MHz)
Output level switching uncertainly:	±1.0 dB (100 kHz to 1 GHz, output level ≥-30 dBm) ±2.0 dB (100 kHz to 2.6 GHz) ±3.0 dB (100 kHz to 3 GHz) (reference level: -10 dBm)
Spurious output Harmonic: Non-harmonic:	≤-20 dBc (output level: -10 dBm) ≤-30 dBc (output level: -10 dBm)
TG leakage	≤-100 dBm (input ATT: 0dB)
Output impedance: VSWR:	50 Ω (nominal) ≤2 (output level ≤-10 dBm) (typical)
Maximum allowable input level:	+15 dBm ±10 VDC
Mass:	≤1 kg

Operating temperature:	0 to +50°C Relative humidity 85% or less (no condensation)
Storage temperature:	-20 to +60°C, Relative humidity 85% or less
Power source: 100 VAC: 200 VAC:	Automatic switching to 100 or 200 VAC 100 to 120 VAC, 50 to 60 Hz 220 to 240 VAC, 50 to 60 Hz
Power consumption:	<200 VA
Dimension:	Approx. 424 (W) x 177 (H) x 300 (D) mm (excluding feet and connectors)
Mass:	<16 kg (excluding options, cover, and accessories)

R3182 Specifications

Frequency		
Frequency range:	9 kHz to 40 GHz	
Preamplifier OFF		Harmonic order (N)
band 0:	9 kHz to 3.3 GHz	1
band 1:	3.2 to 7.1 GHz	1
band 2:	7 to 14.7 GHz	2
band 3:	14.5 to 27 GHz	4
band 4:	26.5 to 30 GHz	4
band 5:	29.5 to 40 GHz	8
Preamplifier ON		
band 0:	9 kHz to 3.3 GHz	1
Frequency reading accuracy (Start, Stop, CF, Marker):	± (Reading of frequ reference accuracy + RBW x 0.15 + 60 H	ency x Frequency + Span x Span accuracy Iz)
Counter		
Resolution:	1 Hz to 1 kHz	
Accuracy:	± (Marker frequenc	y x Frequency
	reference accuracy	+ Residual FM + 1 LSD)
	(S/N ≥25 dB, span ≤	200 MHz)
Frequency reference accuracy		
Stability:	±2 x 10 ⁻ °/year	
Temperature stability:	±1 x 10 ⁻⁵ (0 to +50°0	2)
Frequency span		
Range:	1 kHz to 40 GHz, 0 I	Hz (zero span)
Accuracy:	≤±1%	
Residual FM		
Zero span:	≤ (60 Hzp-p x N) /10	00 ms
Noise sideband		
Frequency ≤2.6 GHz:	≤-100 dBc/Hz	
	(at 10 kHz offset, R	BW 300 Hz (OPT.27))
	≤-105 dBc/Hz (at 20) kHz offset)
Frequency >2.6 GHz:	≤ (-98 + 20 logN) dB	ic/Hz
	(at 10 kHz offset, R	BW 300 Hz (OPT.27))
	≤ (-103 + 20 logN) d	Bc/Hz
	(at 20 kHz offset)	
Resolution bandwidth at 3 dB		
Range:	1 kHz to 3 MHz (1-3	-10 sequence)
Accuracy:	±20% 1 kHz to 1 M	Hz
	±25% 3 MHz	
Selectivity (60 dB:3 dB):	<15:1	
QP (6 dB) Range:	1 MHz, 120 kHz, 9 k	Hz
Video bandwidth:	10 Hz to 3 MHz (1-3	-10 sequence)
Amplitudo rango		
Ampiltude range		
weasuring range	+30 dBm to display	ed average noise level
Maximum input level	(Input attenuator ≥	10 dB)

+30 dBm, 0 VDC max.	
+13 dBm, 0 VDC max.	
10 x 10 div, 10, 5, 2, 1 dB/div	
10% of reference level/div	
(Input attenuator 0 to 70 dB)	
-64 to +60 dBm (0.1 dB step)	
+141.1 µV to +223.6 V	
(Input attenuator 0 to 30 dB)	
-82 to +10 dBm (0.1 dB step)	
+17.76 μV to +707.1 mV	
0 to 70 dB (10 dB step)	
	+30 dBm, 0 VDC max. +13 dBm, 0 VDC max. 10 x 10 div, 10, 5, 2, 1 dB/div 10% of reference level/div (Input attenuator 0 to 70 dB) -64 to +60 dBm (0.1 dB step) +141.1 μV to +223.6 V (Input attenuator 0 to 30 dB) -82 to +10 dBm (0.1 dB step) +17.76 μV to +707.1 mV 0 to 70 dB (10 dB step)

 Sweep

 Sweep time:
 10 ms to 1000 s (Sweep time under 20 ms can be set up at span 100 MHz or less)

 Accuracy:
 ±2%

 Trigger mode:
 FREE RUN, LINE, VIDEO, EXT, TV

 Sweep mode:
 REPEAT, SINGLE

Dynamic range RBW 1 kHz, VBW 10 Hz, Displayed average noise level: input attenuator 0 dB, $f \ge 10$ MHz Preamplifier OFF 10 MHz to 3.3 GHz (band 0): -117 dBm + 2 f (GHz) dB¹ 3.2 to 7.1 GHz (band 1): -114 dBm*1 7 to 14.7 GHz (band 2): -112 dBm^{*1} 14.5 to 27 GHz (band 3): -110 dBm* -107 dBm^{*1} 26.5 to 30 GHz (band 4): 29.5 to 40 GHz (band 5): -106 dBm^{*1} Preamplifier ON 1 MHz to 3.3 GHz: -132 dBm + 3 f (GHz) dB 1 dB gain compression Preamplifier OFF 200 MHz to 3.3 GHz (band 0): >0 dBm (mixer input level) 3.2 to 40 GHz (band 1 to 5): >-5 dBm (mixer input level) Preamplifier ON (Input attenuator 0 to 30 dB) 200 MHz to 3.3 GHz (band 0): >-25 dBm (RF input level) Spurious response: preamplifier OFF Second harmonic distortion: Frequency range Mixer level **Distortion level** 100 to 800 MHz -30 dBm ≤-70 dBc ≥800 MHz (band 0) -30 dBm ≤-80 dBc ≤-95 dBc -10 dBm ≥3.3 GHz Third order intermodulation ≤-80 dBc (200 MHz to 3.3 GHz, band 0) distortion: ≤ -75 dBc (3.2 to 30 GHz, band 1 to 4) ≤-70 dBc (29.5 to 40 GHz, band 5) (mixer input level -30 dBm,

	two signal difference >50 kHz)				
Image/Multiple/					
Out of ballu response.	$< 10 \text{ ubc}$ (10 winz $\leq 1 \leq 10 \text{ GHZ}$)				
	<-65 dBc (18 GHz < f ≤26.5 GHz)				
	<-60 dBc (26.5 GHz < f ≤ 34 GHz)				
	<-50 dBc (34 GHz < f ≤ 40 GHz)				
Residual response:	(Input terminated 50 Ω , input attenuato				
	0 dB, f ≥1 MHz)				
Preamplifier OFF:	≤-100 dBm (band 0)				
	≤-90 dBm (band 1 to 5)				
Preamplifier ON:	≤-105 dBm (band 0)				

*1: For a temperature range of 20 to 30°C. Add 2 dB for a temperature range of 0 to 50°C.

Amplitude accuracy

Frequency response

(after calibration and preselector peak, attenuator 10 dB) Preamplifier OFF

	Relative		Absolute ^{*2}	
	20 to 30°C	0 to 50°C	20 to 30°C	0 to 50°C
100 kHz to 3 GHz	±0.5 dB	±1.0 dB	±0.6 dB	±1.0 dB
9 kHz to 3.3 GHz	±1.5 dB	±2.0 dB	±1.5 dB	±2.0 dB
3.3 to 7.1 GHz	±1.6 dB	±1.8 dB	±1.8 dB	±2.5 dB
7.1 to 14.7 GHz	±1.8 dB	±2.0 dB	±2.0 dB	±3.0 dB
14.7 to 26.5 GHz	±2.5 dB	±3.0 dB	±3.0 dB	±4.0 dB
27 to 30 GHz	±3.0 dB	±3.5 dB	±3.5 dB	±4.5 dB
30 to 40 GHz	±3.5 dB	±4.0 dB	±4.0 dB	±5.0 dB

Preamplifier ON

Frequency range	Relative		Absolute ^{*2}	
	20 to 30°C	0 to 50°C	20 to 30°C	0 to 50°C
100 kHz to 2.7 GHz	±1.0 dB +2 0 dB	±1.0 dB	±1.0 dB +2.0 dB	±1.0 dB +2.0 dB
				±2.0 0D

Calibration signal level accuracy: -20 dBm ±0.3 dB

IF gain error

(after automatic calibration): ±0.5 dB

Scale indication accuracy	
(after automatic calibration)	
Log:	±1.5/90 dB, ±1.0/10 dB, ±0.2/1 dB
Liner:	±5% of reference level

*2: In reference to 30 MHz calibration signal.

Input ATT switching error:	<pre>≤±1.1/10 dB, 2 dB max. (9 kHz to 12 GHz) ≤±1.3/10 dB, 2.5 dB max. (12 to 18 GHz) ≤±1.8/10 dB, 3.5 dB max. (18 to 26.5GHz) ≤±2.2/10 dB, 4 dB max. (26.5 to 40GHz) in reference to an attenuation of 10dB at 30 MHz</pre>
Resolution bandwidth switchinglevel error (after automatic calibration):	+0.5 dB
Total level accuracy Preamplifier OFF:	±1.5 dB (REF = -50 to 0 dBm, ATT = 10 dB, 2 dB/div, RBW = 300 kHz, f = 100 kHz to 3 GHz, after automatic calibration)
1/0	
RF input Connector: Impedance: VSWR (at tuned frequency) Preamplifier OFF:	K connector (male) 50 Ω (nominal) <1.5 : 1 (9 kHz to 3.3 GHz, band 0) (typical) <2 : 1 (3.2 to 26.5 GHz, band 1 to 3) (typical) <2.2 : 1 (26.5 to 40 GHz, band 4, 5) (typical)
Preamplifier ON:	<pre>< 2.5 : 1 (9 kHz to 3.3 GHz, band 0) (typical)</pre>
Probe power:	±12 V (nominal), 4-pin connector
Calibration output signal:	BNC female, 50 Ω (nominal) 30 MHz, -20 dBm
External mixer local output Connector: Impedance: Frequency range: Output level:	SAM female 50 Ω (nominal) 4.0 to 7.6 GHz >+8 dBm
10MHz reference input:	BNC female, 500 Ω (nominal) -10 to +10 dBm
External trigger input:	BNC female
Y axis output:	BNC female Approx. 2 V in full scale (10 dB/div)
Phone output:	Small size monophonic female
GPIB interface:	IEEE-488 BUS connector
Serial interface:	D-Sub 9-pins
Printer interface:	D-Sub 25-pins, ESC/P, ESC/P-R, PCL
Video output:	VGA (15-pins, female)
Floppy disk:	3.5-inch, MS-DOS format
General specifications	
Operating temperature:	0 to +50°C Relative humidity 85% or less (no condensation)
Storage temperature:	-20 to +60°C, relative humidity 85% or less
Power source: 100 VAC: 200 VAC:	Automatic switching to 100 or 200 VAC 100 to 120 VAC, 50 to 60 Hz 220 to 240 VAC, 50 to 60 Hz
Power consumption:	<200 VA
Dimension:	Approx. 424 (W) x 177 (H) x 300 (D) mm (excluding feet and connectors)
Mass (without option):	<18 kg (excluding options, cover, and

Options OPT.16 External mixer (26.5 to 40 GHz)			
Frequency range:	26.5 to 40 GHz		
Average noise level:	≤- 99 dBm (typical value at RBW 1 kHz, VBW 10 Hz)		
Frequency response:	±5 dB (typical)		
1 dB gain squeeze:	-1 dBm		
Maximum input level:	+20 dBm (continuous wave (CW) power)		
OPT.17 External mixer (4	40 to 60 GHz)		
Frequency range:	40 to 60 GHz		
Average noise level:	≤- 93 dBm (typical value at RBW 1 kHz, VBW 10 Hz)		
Frequency response:	±5 dB (typical)		
1 dB gain squeeze:	-1 dBm		
Maximum input level:	+20 dBm (CW power)		
OPT.18 External mixer (50 to 75 GHz)		
Frequency range:	50 to 75 GHz		
Average noise level:	≤- 90 dBm (typical value at RBW 1 kHz, VBW 10 Hz)		
Frequency response:	±5 dB (typical)		
1 dB gain squeeze:	-6 dBm		
Maximum input level:	+20 dBm (CW power)		
OPT.19 External mixer (75 to 110 GHz)			
Frequency range:	75 to 110 GHz		
Average noise level:	≤- 85 dBm (75 to 85 GHz) ≤- 80 dBm (85 to 110 GHz) (typical value at RBW 1 kHz, VBW 10 Hz)		
Frequency response:	±5 dB (typical)		
1 dB gain squeeze:	-6 dBm		
Maximum input level:	+20 dBm (CW power)		
OPT.20 High-stability frequency reference			
Reference frequency source accuracy			
Stability:	±2 x 10 ^{-*} /day +1 x 10 ⁻⁷ /vear		
Warm-up drift (nominal):	±5 x 10 ⁻⁸ (typical)		
	(25°C, 10 minutes after tuning the		
Temperature drift:	±5 x 10 ⁻⁸		
	(0 to +40°C, with reference to +25°C)		
OPT.27 Narrow-band resolution bandwidth			
3-dB resolution bandwidth:	300 Hz, 100 Hz, 30Hz		
Bandwidth accuracy:	±20%		
6-dB resolution bandwidth:	200 Hz		
OPT.29 Time-domain high-speed sweeps			
Sweep time:	50 µs to 10 ms		
Sweep time accuracy:	±1%		
Trace detector:	Sample		
Trace point:	501		

OPT.73 Wide-range FM demodulation Internal mixer mode			
Measuring amplitude range:	 > -50 dBm + input attenuation value (at center frequency 1 GHz, RBW Wide, -20 dB or more than reference level) 		
FM deviation Measuring range: Linearity error*:	2.5 MHz, 1 MHz, 500 kHz, 250 kHz, 100 kHz, 50 kHz, 25 kHz, 10 kHz ≤ (2 % of measuring range)		
Offset error*:	 < (4 % of measuring range + K + Readout of frequency x Frequency reference accuracy) K; 8 kHz (measuring range 2.5 MHz to 250 kHz) 2 kHz (measuring range 100 kHz to 10 kHz) 		
Demodulation frequency bandwidth (3 dB):	≥300 kHz (nominal)		
External mixer mode (one of	OPT.16, 17, 18 or 19 is required)		
FM deviation Measuring range:	500 MHz, 250 MHz, 100 MHz, 50 MHz, 25 MHz, 10 MHz, 5 MHz, 2.5 MHz, 1 MHz, 500 kHz, 250 kHz, 100 kHz, 50 kHz, 25 kHz, 10 kHz		
Linearity error*: Offset error*:	 ≤ (2 % of measuring range) ≤ (4 % of measuring range + K + Readout of frequency x Frequency reference accuracy) K; 128 kHz (measuring range 500 MHz to 5 MHz) 8 kHz (measuring range 2.5 MHz to 250 kMz) 2 kHz (measuring range 100 kHz to 10 kMz) 		
Demodulation frequency bandwidth (3 dB):	≥300 kHz (nominal)		
Specifications may change withou	ut notification.		