

FREQUENCY COUNTERS



200 MHz

BK 1803D



1GHz

BK 1804D



2,4GHz

BK 1823A



3,5GHz

BK 1856D

Capabilities

- Wide Measuring range up to 200 MHz
- 7 digit LED display
- Selectable gate times 0.1 sec and 1.0 sec
- Highly accurate time base

- Wide Measuring range up to 1 GHz
- 7 Digit LED display
- Selectable gate times 0.1 and 1.0 sec.
- Highly accurate time base

- Wide Measuring range up to 2,4GHz
- 9 Digit LED display
- Frequency ratio, Time interval, Period measurements
- Trigger function
- High stability time base
- External frequency standard input
- Input attenuator, Low pass and Line filters
- RS-232C Interface

- Wide measuring range up to 3.5GHz
- 9 digit LED display
- Period mode for accurate low frequency measurement
- Totalize mode permits counting of individual events
- Accurate TCXO time base
- Input attenuator and filters
- RS232 Interface

Technical Specification	BK1803D	BK1804D	BK1823A	BK1856D
Frequency range	10 Hz to 25MHz 10 MHz to 200MHz	10Hz to 16 MHz 10 MHz to 1 GHz	0,1Hz to 100MHz 80MHz to 2,4GHz	0,1Hz to 100 MHz 80 MHz to 3GHz
Accuracy	± time base+1d	± time base+1d	± time base+1dgt	± time base+1d
Period	-	-	0,5µs to 200 000µs	0,285 µs to 200 000µs
Input characteristics				
Sensitivity	< 25 mV from 5 Hz to 30MHz < 50 mV from 30 MHz to 100MHz	< 50mV from 10Hz to 200MHz	<30mV from 0,1Hz to 100MHz (A and B)	< 20mV from 5Hz to 30 MHz < 50 mV for F > 100 MHz
Impedance	1 MΩ	1 MΩ / 50 Ω (VHF input)	1MΩ (A and B)	1 MΩ
Coupling	AC	AC	AC or DC for A and B	AC
Filter	-	-	100KHz, -3dB (A and B)	100 KHz, -3dB
Attenuator	-	-	yes, x1/x10 (A and B)	yes, x1/x10
Prescaler input				
Sensibilité	-	-	<25mV from 80MHz to 150MHz <20mV from 150MHz to 2GHz <60mV from 2GHz to 2,4GHz	<15mV from 80MHz to 2GHz <20mV from 2GHz to 3GHz <30mV from 3GHz to 3,2GHz <50mV up to 3,5GHz.
Impedance	-	-	50 Ω	50 Ω
Coupling	-	-	AC	AC
Max. level	-	-	3V rms	3V rms
Time base				
Type	Quartz	Quartz	Quartz - TCO	TCXO
Frequency	10 MHz	5,24 288 MHz	10MHz	10 MHz
Stability	± 0,1ppm	± 0,1ppm	±1ppm ±1Hz	± 0,1 ppm ± 1 Hz
Temperature drift	-	-	< ± 1ppm+10% for 10% change	< ± 0,1ppm for 10% change
Main voltage drift	± 10 ppm from 0° to 50°C	± 10 ppm from 0° to 50°C	± 5 ppm from 0° to 50°C	± 10 ppm from 0° to 40°C
Display	7 digit, LED	7 digit, LED	9 digit, LED	9 digit, LED
Units	-	-	KHz, MHz, µs, gate, overflow	KHz, MHz, µs, gate, overflow
Power supply	9V DC, 300mA	7-10V DC, 800mA	120/220/240V or 6 1,5V/AA batteries	120/220/240V
Dimensions	54 x 230 157 mm	54 x 230 157 mm	90 x 270 x 240 mm	240 x 90 x 270mm
Weight	680 g	680 g	2,5Kg	2,5 kg

Supplied with : power cord

Optional accessories : see page 54, 55, 56, 57.