**PHILIPS**

**PM6614**  520 MHz UNIVERSAL COUNTER

**FEATURES**
- 10 Hz - 520 MHz frequency range
- 100 ns time resolution
- 10 mV sensitivity
- 9 digit bright display for high resolution
- Portability with optional battery
- Noise free LF measurements with low pass filter
- Noise suppression and overload protection by unique AGC circuit
- BCD and D/A output options
- Separate HE and LF inputs with appropriate impedances and filters
- Rugged construction inside and out for reliable field use.
- Frequency, period, period average, ratio and totalizing
- Choice of 4 high stability timebases.

**SPECIFICATIONS**
- Frequency: 10 Hz - 520 MHz (pulses to 0.1 Hz)
- Gate times: 10ns - 10s in decade steps
- Resolution: 0.1 Hz - 100 Hz in decade steps
- Period resolution: 100ns (single), 100 ns/100 or 10,000 (average)
- Multiple ratio: A or B/C 10 Hz - 520 MHz / 1 kHz - 10 MHz
- Count accumulation: During manual start/stop to 10^9
- Counting pulse pair resolution: 12 ns
- Check mode: 10 MHz clock applied to Input A
- Input A: 1 Mohm // 25pF AC coupled
- Sensitivity: 10 mVrms
- Attenuation: Continuously variable (1X - 400X)
- Overload: Protected 12 Vrms, 1 MHz
- Input B: 50 Ohms AC coupled
- Automatic attenuation: To 62dB
- Overload: Protected 12 Vrms
- Input C: About 10 KOhms AC coupled 50 Vrms protected
- Short circuit proof, AC coupled oscillator output
- Size and Weight: 3.5" H x 8.3" W x 12.8" D  Weight: 6.2 pounds
- Philips Model: PM6614 520 MHz universal counter  $1225.00
- Optional accessories:
  - PM9673 - Battery, internal mounting  $210.00
  - PM9674 - BCD output  $250.00
  - PM9678 - TCXO timebase  $150.00
  - PM9670 - High stability timebase  $270.00
  - PM9690 - Very high stability timebase  $595.00
- Upgrading to more stable timebase can be done at any time by replacing timebase.

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**PHILIPS**

**PM6615**  1 GHz UNIVERSAL COUNTER

**FEATURES**
- 10 Hz - 1 GHz frequency range
- 100 ns time resolution
- 1 mV sensitivity
- 9 digit bright display for high resolution
- Portability with optional battery
- Noise free LF measurements with low pass filter
- Noise suppression and overload protection by unique AGC circuit
- BCD and D/A output options
- Separate HE and LF inputs with appropriate impedances and filters
- Rugged construction inside and out for reliable field use.
- Frequency, period, period average, ratio and totalizing
- Choice of 4 high stability timebases.

**SPECIFICATIONS**
- Frequency: 10 Hz - 1 GHz (pulses to 0.1 Hz)
- Gate times: 10ns - 10s in decade steps
- Resolution: 0.1 Hz - 100 Hz in decade steps
- Period resolution: 100ns (single), 100 ns/100 or 10,000 (average)
- Multiple ratio: A or B/C 10 Hz - 1 GHz / 1 kHz - 10 MHz
- Count accumulation: During manual start/stop to 10^9
- Counting pulse pair resolution: 12 ns
- Check mode: 10 MHz clock applied to Input A
- Input A: 1 Mohm // 25pF AC coupled
- Sensitivity: 10 mVrms
- Attenuation: Continuously variable (1X - 400X)
- Overload: Protected 12 Vrms, 1 MHz
- Input B: 50 Ohms AC coupled
- Overload: Protected 12 Vrms
- Input C: About 10 KOhms AC coupled 50 Vrms protected
- Short circuit proof, AC coupled oscillator output
- Size and Weight: 3.5" H x 8.3" W x 12.8" D  Weight: 6.2 pounds
- Philips Model: PM6615 1 GHz universal counter  $1499.00
- Optional accessories:
  - PM9673 - Battery, internal mounting  $210.00
  - PM9674 - BCD output  $250.00
  - PM9678 - TCXO timebase  $150.00
  - PM9679 - High stability timebase  $270.00
  - PM9690 - Very high stability timebase  $595.00
- Upgrading to more stable timebase can be done at any time by replacing timebase.

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**PHILIPS**

**PM6650**  512 MHz PROGRAMMABLE COUNTER/TIMER

**FEATURES**
- DC - 512 MHz
- 9 digit bright display for high resolution
- AGC with hysteresis compensation for elimination of noise triggering
- 10 millisecond sensitivity
- Frequency, period, period average, time interval, time interval average, multiple ratio, count and scaling
- Programmable options for all functions
- BCD and analog output options
- Choice of high stability oscillators

**SPECIFICATIONS**
- Frequency: DC to 512 MHz, Normal or Burst
- Gate times: 100 ns - 100s in decade steps
- Time resolution: 10 ns (single); 10 ns/1 - 10^6 in decade steps (period average)
- Time interval average: 100 ps - 10s
- Intervals averaged: 1 - 10^6 in decade steps
- Multiple ratio: A/B, DC - 160 MHz/DC - 10 MHz
- Counting accumulation to 10^9
- Pulse resolution: 2.5 ns minimum width
- Scaling: A/N from 1 - 10^6 in decade steps
- Inputs: A and B: 1 Mohm // 25pF or 50 Ohm
- 50mV sensitivity; DC to 160 MHz: AC or DC coupling; Trigger slope and level set: Trigger monitor outputs; Common or separate: 230Vrms (1 Mohm), 12V(50 Ohm).
- Input C: 50 Ohm, 5 MHz - 512 MHz: 10 mV sensitivity; AGC attenuation: AC coupled; LED indication of trigger level
- Supply: 100 - 130V and 200 - 260V (RMS)
- Size and Weight: 5.3" H x 12" W x 16" D  Weight: 19.8 pounds
- Philips Model: PM6650 512 MHz programmable counter/timer  $3455.00
- Optional accessories:
  - PM9680A - TCXO timebase  $395.00
  - PM9681 - Ultra high stability timebase  $595.00
  - PM6634 - Microwave converter (12.6 GHz)  $3600.00
  - PM9684 - BCD output card  $375.00
  - PM9685 - Programmable input card  $265.00
  - PM9687 - Analog output card  $495.00
- Note: Upgrading to more stable timebase can be done at any time by replacing timebase.