

Protek 3GHz Frequency Counter U3003A



FEATURES

- ▶ Microprocessor to realize intelligent measurement
- ▶ Low pass filter and attenuator in pre-position circuit
- ▶ Count backwards, realize the equivalent accuracy
- ▶ Measurement with fast speed and high sensitivity
- ▶ Micro SCM to measure freq period and intelligentize the management
- ▶ LSI design and CPLD application to diminish the components qty
- ▶ And the average working time be not less than 10000h without fault
- ▶ Fine outline, small, light, easy to handle

Specifications	Protek U3003A
Frequency measurement	1Hz ~ 3GHz
Cycle measurement	10ns-1s
Count capability	10 ⁸ -1
Input impedance	Channel A 1MΩ//40pF Channel B 50Ω
Input coupling mode	AC
Waveform adaptability	Sine, triangle, pulse
Dynamic of input voltage	
Channel A	30mVrms ~ 250Vp ~ p
Channel B	30mVrms ~ 1Vrms
Frequency measurement	
Channel A	1Hz ~ 10MHz/100MHz
Channel B	100MHz ~ 1.5GHz/3GHz
Channel A low pass filter	- 3dB bandwidth is about 100kHz
Channel A attenuation	×1 or ×20
Measurement error	± time base error ± trigger error ±LSD LSD = $\frac{100ns}{\text{Strobe time}} \times \text{measured frequency (or measured period)}$
Trig error	When the measured signal noise is 40dB , trigger error ≤0.3%
Strobe time	10ms、 100ms、 1s、 10s
Count capability	0 ~ 99,999,999
Crystal vibrator freq	10MHz
Freq stability of Crystal vibrator	1×10 ⁻⁵ /d
Ext input frequency	10MHz
Ext freq input amplitude	> 1Vp-p
Display	8 digits high bright, 0.5 inch numeral tube,3 units LED indicator, a strobe LED indicator and a ext freq mark LED indicator;
Power Supply	AC 220V(1±10%), 50Hz((1±5%), 20VA
Mechanic character	
Dimension	90H×280W×240D (mm)
Weight	1.5KGS



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