DAGATRON®

FREQUENCY/UNIVERSAL COUNTER



FREQUENCY COUNTER
3.7GHz 8037

Features

- Frequency measuring range :
  - 0.1Hz to 100MHz in A input
  - 80MHz to 3.7GHz in C input
- 9 digits display with 0.01mHz resolution
- Period, RPM and Total measurement
- RS-232C serial interface function
- Reciprocal technique for high resolution
- High sensitivity external reference
- AC/DC coupling function
- 10:1 Input attenuation
- Data hold function



FREQUENCY COUNTER
3.0GHz 8030 / 1.5GHz 8013

Features

- Frequency measuring range :
  - 0.1Hz to 100MHz in A input
  - 80MHz to 3.0GHz in C input (8030)
  - 80MHz to 1.5GHz in C input (8013)
- 9 digits display with 0.01mHz resolution
- Period, RPM and Total measurement
- RS-232C serial interface function
- Reciprocal technique for high resolution
- High sensitivity external reference
- AC/DC coupling function
- 10:1 Input attenuation
- Data hold function



UNIVERSAL COUNTER
3.0GHz 8030U / 1.5GHz 8023

Features

- Frequency measuring range :
  - 0.1Hz to 100MHz in A,B input
  - 80MHz to 3.0GHz in C input (8030U)
  - 80MHz to 1.5GHz in C input (8023)
- 9 digits display with 0.01mHz resolution
- Period and Total measurement
- Time interval and Ratio measurement
- Trigger level adjustment for input A
- Separate and common mode selectable
- Slope mode selectable for input A and B
- RS-232C serial interface function
- Reciprocal technique for high resolution
- AC/DC coupling function
- 10:1 Input attenuation
- Data hold function

SPECIFICATION

SPEC. \ MODEL		8037	8030/8013	8030U / 8023
Display		9 digit large green LED display, Overflow, Gate Time, mHz, Hz, KHz, MHz, nS, uS, mS, S, HOLD		
Frequency Measurement	Range	Input A : 0.1Hz - 100MHz, Input C : 80MHz - 3.7GHz	Input A : 0.1Hz - 100MHz, Input C : 80MHz - 3.0GHz (8030) Input C : 80MHz - 1.5GHz (8013)	Input A, B : 0.1Hz - 100MHz, Input C : 80MHz - 3.0GHz (8030U) Input C : 80MHz - 1.5GHz (8023)
	Gate Time	0.01Sec, 0.1Sec, 1Sec, 10Sec		
	Resolution	1nHz to 10Hz		
	Accuracy	±Resolution ±Timebase Error ±1 Count		
Input Characteristics	Terminal	A, C		A, B, C
	Sensitivity	A Input : 30mVrms,		A, B Input : 30mVrms,
		C Input : 10mVrms(80MHz-2.0GHz), 20mVrms(2.0GHz-3.0GHz), 30mVrms(3.0GHz-3.2GHz), 40mVrms(3.2GHz-3.5GHz), 70mVrms(3.5GHz-3.7GHz)	C Input : 25mVrms(80MHz-150MHz), 20mVrms(150MHz-2.0GHz), 40mVrms(2.0GHz-3.0GHz) (8030/8030U) C Input : 35mVrms(80MHz-1.1GHz), 70mVrms(1.1GHz-1.5GHz) (8013/8023)	
	Impedance	A Input : 1MΩ, < 40pF, C input : 50Ω		A, B Input : 1MΩ, <40pF, C Input : 50Ω
	Max. Input Voltage	A Input : 250Vrms, C input : 3Vrms		A, B Input : 250Vrms, C Input : 3Vrms
	Attenuator	A Input : x1, x10		A, B Input: x1, x10
	Slope A,B			+,- Selectable
	Trigger A			Preset or Variable
	Low Pass Filter	A Inpu t: 100kHz, -3dB		A, B Inpu t: 100kHz, -3dB
Multi Function For input A	Period	Range : 10nSec to 10Sec		
		Resolution : 1pSec to 1nSec, Accuracy : ±Resolution ± Trigger error ± 1count		
	Totalize	Range : DC to 30MHz,		
		Count capacity : 0 to 999999999(Max.)		
	RPM	6 RPM to 600 x 10^7 RPM		
Comparison Function for Input A,B	Time Interval (A to B)			- Range : 10mSec to 10Sec - L.S.D Display : 100mSec - Resolution : ±L.S.D. ±Trigger Error - Accuracy : ±Resolution ±1 count
	Ratio (A/B)			- Range : A input ; 0.1Hz to 100MHz B input ; 5Hz to 100MHz - L.S.D. Display : A x N/B (N=1 to 1000)
Time Base Characteristics	Internal Timebase	- Frequency : 10MHz TCO(TCXO; option) - Temp. Stability : Less than $5x10^{-6}$ (0 to +50°C)		- Aging Rate :Less than $5x\ 10^{-9}$/month - Line Voltage : Less than $1x10^{-6}$ for 10% variation
	Frequency Standard Output	Frequency : 10MHz, Amplitude : 1.5 Vp-p, Impedance : Approx. 600Ω		
	External Standard Input	Frequency : 10MHz, Amplitude : 1.5 Vrms to 5 Vrms, Impedance : Approx. 600Ω		
General	Power Requirement	115/230 VAC +/- 10%, 48 to 66Hz		
	Dimension / Weight	240(W) x 270(D) x 90(H) mm / Approx. 2.5kg		

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