

1.5GHz FREQUENCY COUNTER

FC-8150



■ FEATURE

- Frequency measuring range : 0.1 Hz to 100 MHz in A input
80 MHz to 1.5 GHz in C input
- Period and Total measurement for input A
- RPM measurement for input A
- 9 Digit display with 0.01 mHz resolution in 1 Sec.
- RS-232C serial interface function for communicating with computer
- High sensitivity External reference input function(Higher than 1.5 Vrms)
- Reciprocal technique for high resolution at low counting frequencies
- Self check function executed to perform a automatic self diagnosis of various counter function
- Push-scanning for selecting Function and Gate time
- Low-pass filter(100 kHz, -3 dB) installed for removing noise signal in low frequency measuring
- AC/DC coupling function (Selectable AC/DC Coupling)
- 10:1 Input Attenuation (Selectable x1/x10 Attenuator)
- Data hold function

■ Technical Specification

Function		Specification
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 - 1.5GHz
	Gate Time	0.01Sec, 0.1Sec, 1Sec, 10Sec
	Resolution	1nHz to 10Hz
	Accuracy	+/- Resolution +/- TimebaseError +/- 1count
Input Characteristics	Terminal	A , C
	Sensitivity	A Input : 30mVrms , C input : 30mVrms
	Impedance	A Input : 1 Mohm, j 40pF , C input : 50 ohm
	Max. Input Voltage	A Input : 250mVrms, C input : 3Vrms
	Attenuator	A Input : x1, x10
	Low Pass Filter	A Input : 100kHz, -3dB
Multi Function for input A	Period	Range : 10mSec to 10Sec
		Resolution : 1pSec to 1nSec depending on Gate time and input Signal
	Totalize	Accuracy : +/- Resolution +/- Trigger Error +/- 1count
		Range : 5Hz to 10MHz Count capacity : 0 to 999999999(Max)
RPM	6 RPM to 900 x 10 ⁶ RPM	
Time Base Characteristics	Internal Time base	- Frequency : 10MHz TCO (TCXO ; Option)
		- Aging Rate : Less than 5x10 ⁻⁶ /month
		- Temp. Stability : Less than 5 x10 ⁻⁶ (0 to +50jÆC)
		- Line Voltage : Less than 1x10 ⁻⁶ for 10% variation
	Frequency Standard Output	- Frequency : 10MHz
		- Amplitude : 1.5Vp-p - Impedance ; Approx. 600 ohm
External Standard Input	- Frequency : 10MHz	
	- Input Level : 1.5Vrms to 5Vrms - Impedance ; Approx. 600 ohm	
General	Power Requirement	115/230VAC +/- 10% ,48 to 66Hz
	Operating Temperature	0 to 50 jÆC (Accuracy specified at 25 +/- 5 jÆC)
	Dimension	240(W) x 270(D) x 90(H)mm
	Weight	Approx. 2.5 kg
	Standard Accessories	Power cord, BNC cable, Fuse, Instruction manual