

# Universal Counter

Part Nos. 01FC150U (150 MHz) and 01FC7150U (1.5 GHz)

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SPECIFICATION		MODEL	
		FC-7150U	FC-150U
Frequency Measurement	Display	9 digit large green LED display (Overflow, Gate time, mHz, Hz, kHz, MHz, ns, ms, s, Hold)	
	Range	0.1Hz to 1.5GHz	0.1Hz to 150MHz
	Gate Time	0.01sec, 0.1sec, 1sec, 10sec	
	Resolution	1nHz ~ 10Hz	
	Accuracy	$\pm$ Resolution $\pm$ timebase error $\pm$ 1 count	
Input Characteristics	Terminal	A, B, C	A, B
	Sensitivity	A, B input: 20mVrms, C input: 30mVrms	
	Impedance	A, B input: 1MW <40pF, C input: 50W	
	Max. Voltage	A, B input: 250Vrms, C input: 3Vrms	
	Attenuator	A, B input: x1, x10	
	Slope A, B	$\pm$ selectable	
	Trigger A	Preset or Variable	
	L.P. Filter	A, B input : 100kHz, -3dB	
Multi Function for Input A	Period	Range: 10ms ~ 10s, Resolution: 1ps ~ 1ns Accuracy: $\pm$ Resolution $\pm$ Trigger Error $\pm$ 1 count	
	Totalize	Range: 5Hz ~ 30MHz, Count Capacity: 0 - 999999999(Max)	
Comparison Function for Input A, B	Time Interval (A&B)	Range: 0.1ms  LSD Display: 100ns  Resolution: $\pm$ LSD $\pm$ Trigger Error  Accuracy: $\pm$ Resolution $\pm$ 1 count	
	Ratio (A/B)	Range: A input: 0.1Hz~10MHz B input: 0.1Hz~10MHz LSD Display: AxN/B, N=1~1000 Accuracy: $\pm$ 1count of A $\pm$ B Trigger Error $\pm$ A	

<b>Time Base Characteristics</b>	<b>Internal Time Base</b>	Frequency: 10MHz TCO Aging Rate: $<3 \times 10^{-7}$ /month Temperature Stability: $<5 \times 10^{-6}$ (0 ~ +50°C) Line Voltage: $<1 \times 10^{-7}$ for 10% variation
	<b>Frequency Output</b>	Frequency: 10MHz, Amplitude: $2.5V_{p-p}$ Impedance: Approx. 500W
	<b>External Output</b>	Frequency: 10MHz Input level: 20mV - 5Vrms Impedance: Approx. 500W
<b>General</b>	<b>Power Requirement</b>	AC 115/230V $\pm 10\%$ (50/60Hz)
	<b>Temp./ Dimension</b>	0~40°C (specified at 25°C $\pm 5$ °C) 225(W) x 260(D) x 80(H) mm
	<b>Weight/ Accessories</b>	Approx. 2 kg Power cord, BNC cable, Fuse, Operator's manual