

2.7 GHz, Bench type, with TCXO

FREQUENCY COUNTER

Model : FC-2700

ISO-9001, CE, IEC1010



FEATURES

- * TCXO (temperature compensated crystal oscillator) time base, high stability & accuracy.
- * High sensitivity for the VHF & UHF frequency measurement, useful for the CB amateur.
- * Wide measuring range up to 2.7 GHz.
- * Battery power or AC/DC adapter.
- * Used the exclusive Microprocessor IC offered the intelligent function: Frequency, Period, Multi resolution, Data hold, Relative measurement, Data record (Max., Min., Average reading).
- * 8 digits, 18.3 mm large LCD .
- * 0.1 Hz resolution for 10 MHz.

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The Art of Measurement

with TCXO, Bench type

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* 8 digits, 18.3 mm large LCD .
* 0.1 Hz resolution for 10 MHz.
* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* Power supply from battery or AC to DC 9V adapter.
* RS 232 PC serial interface.

GENERAL SPECIFICATIONS

Display	18.3 mm (0.72") LCD (Liquid Crystal Display), 8 digits.	
Measurement	Frequency, Data hold, Relative, Memory (max., min., average), Period.	
Range	2.7 GHz	100 MHz to 2700 MHz
	100 MHz	10 MHz to 100 MHz.
	10 MHz	10 Hz to 10 MHz
	Period	10 Hz to 10 MHz
Resolution, Sample Time	Ref. the following "Table for Resolution & Sample Time".	
Sensitivity (Sensitivity Sw. set to high position)	10 MHz	30 mV rms. (10 Hz to 10 MHz) Typical : 15 mV rms.
	& Period	(10 Hz to 9 MHz)
	100 MHz	50 mV rms. (10 MHz to 100 MHz) Typical : 25 mV rms. (30 MHz to 100 MHz)
	2.7 GHz	50 mV rms. (100 MHz to 2.5 GHz) Typical : 35 mV rms. (300 MHz to 2.4 GHz)
Max. functional signal input (Sensitivity Sw. set to normal position)	10 MHz & Period	15 V rms.
	100 MHz 2.7 GHz	4 V rms. 4 V rms. (400 MHz to 2.7 GHz)
Over-input (Max. signal will not hurt the circuit)	10 MHz & Period range : Max. 15 V rms.	
	2.7 GHz & 100 MHz range : Max. 4 V rms.	
Time Base Stability vs. Temp.	1.5 PPM (10 to 30 °C).	

Frequency Accuracy	± (2 PPM + 1 d) 23± 5 °C, after calibration.	
Time Base circuit	16.777216 MHz, TCXO (temperature compensated crystal oscillator).	
Input Connector	10 MHz & Period range : BNC connector.	
	100 MHz range : N coaxial connector.	
	2700 MHz : N coaxial connector.	
Case	Durable & strong ABS-plastic housing with handle.	
Operating Temp.	0 to 50 °C (32 to 122 °F).	
Operating Humidity	Less than 80%.	
Power Supply	6 x 1.5 V AA (UM-3) battery or AC to DC 9V adapter.	
Power Consumption	2700 MHz & 100 MHz range : Approx. DC 105 mA.	
	10 MHz & Period range Approx. DC 45 mA.	
AC Adapter Power Input	Optional, 9V DC , 300 to 500 mA rating, central positive for socket.	
Dimension	280 x 210 x 90 mm (11.0 x 8.3 x 3.5 inch).	
Weight	1200 g/0.27 LB (including battery).	
Standard Accessories	Instruction Manual 1 PC.	
Optional Accessories	PB-21	Direct probe with BNC connector & alligator clip pairs, available for 10 MHz range
	BB-22	Direct probe with double BNC connector, available for 100 MHz & 10 MHz range.
	NN-23	Direct probe with double N coaxial connector, available for 100, 2700 MHz range.
	NB-24	N coaxial connector to BNC connector adapter.
	UPCB-02	Isolated RS232 cable.

TABLE FOR RESOLUTION & SAMPLE TIME

Range	Gate Time Select	Resolution	Sampling Time
10 MHz	FAST	10 Hz	0.5 SEC
	SLOW	1 Hz	1.25 SEC
	SLOW (select 1)	0.2 Hz	6 SEC
	SLOW (select 2)	0.1 Hz	11 SEC
100 MHz	FAST	100 Hz	0.75 SEC
	SLOW	10 Hz	6 SEC
	SLOW (select 1)	20 Hz	5 SEC
	SLOW (select 2)	50 Hz	1.5 SEC
2700 MHz (2.7 GHz)	FAST	1000 Hz	0.5 SEC
	SLOW	100 Hz	2.75 SEC
	SLOW (select 1)	200 Hz	1.5 SEC
	SLOW (select 2)	500 Hz	0.75 SEC

* Appearance and specifications listed in this brochure are subject to change without notice.

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