

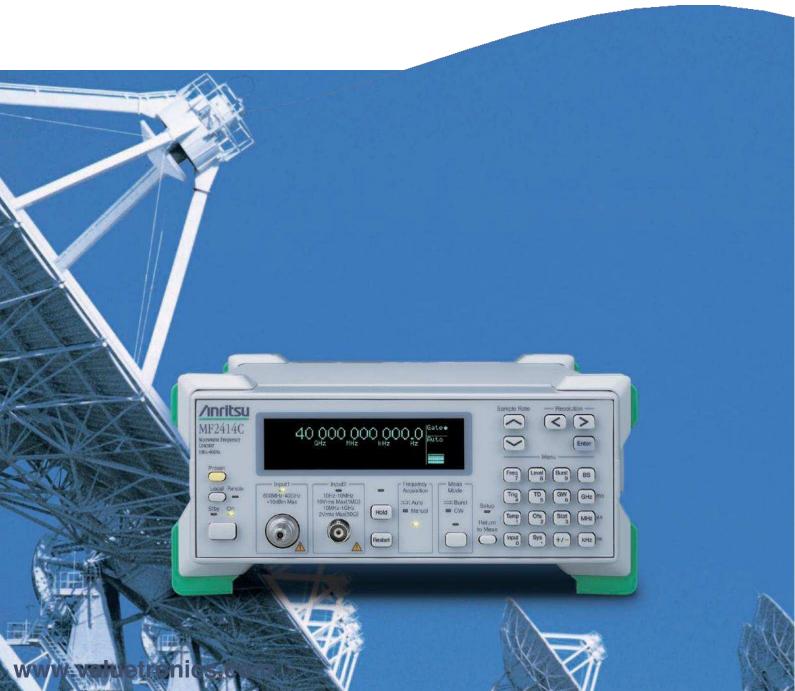
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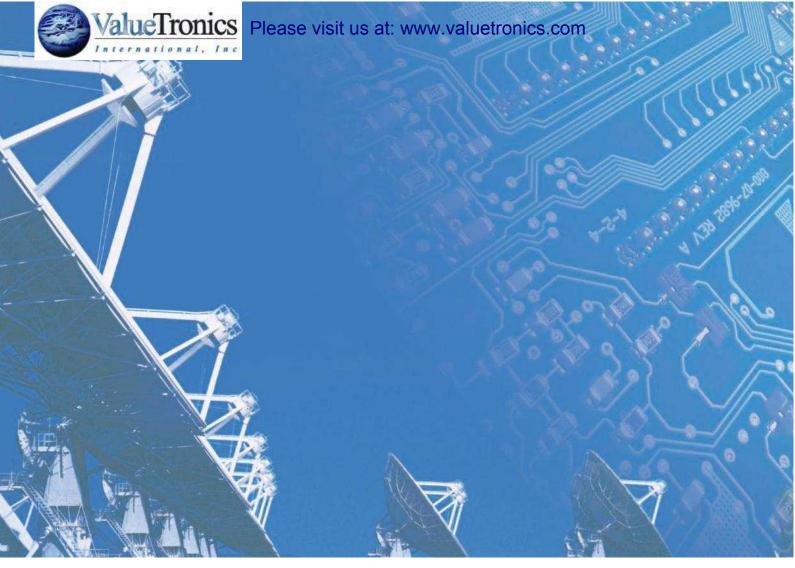
Product Brochure



MF2400C Series

# Microwave Frequency Counter 10 Hz to 20, 27, 40 GHz





# **Newest Burst Wave Measurements**

The MF2400C series lineup is composed of three frequency counters: the MF2412C (20 GHz), the MF2413C (27 GHz), and the MF2414C (40 GHz).
This series is ideal for evaluating mobile radio communications devices and circuits, and can also measure the carrier frequency and pulse width of burst signals.
In addition to displaying measurement results on the 12-digit vacuum fluorescent display (VFD), frequency values can be read using the analog display function, which can be used for monitoring and is especially useful for adjusting the frequency of oscillators.
Furthermore, the template function is perfect for assessing whether or not results fall within upper and lower frequency limit specification. Because the evaluation result is output from the AUX connector on the back panel as a Go/No-go signal, an easy-to-use, automatic

measurement system can be configured using the GPIB function.



Microwave Frequency Counter 10 Hz to 20, 27, 40 GHz







The lineup of three counters with upper frequency limits of 20, 27, and 40 GHz, satisfies every usage requirement. In addition, a high-frequency fuse protects the input circuit from over-power signals, and a variety of adapters is available for coupling each connector.

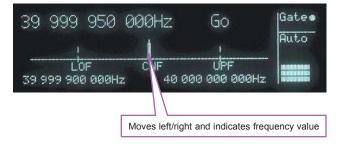
# **High-Accuracy Burst Measurement**

The carrier frequency, burst width, and burst repetition rate of burst signals from 100 ns to 0.1 s input to Input 1 can be measured quickly and accurately.

Measurement	Positive selected	Negative selected	
Burst width	Measurement at Burst ON	Measurement at Burst OFF	
Burst repetition	Measurement of On-On period	Measurement of Off-Off period	

# **Analog Display Function**

Using this function, the entire VFD becomes an analog meter and values are indicated by the meter needle. In addition to quickly grasping changes in measured frequency, this permits faster frequency adjustment and Go/No-Go evaluation of oscillators, which previously required reading of many digits. This analog meter also solves problems of misreading frequency values.



# **Template Function**

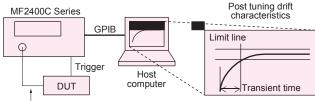
When the upper and lower frequency limits have been preset, Go is displayed when the measured frequency is within the preset range; if it is out of range, No-Go is displayed. In addition, the Go/No-Go signal can be output from the AUX connector on the back panel as a TTL signal.

This is very useful for configuring an automatic Pass/Fail evaluation system (using analog display).

# **High-Speed Transient Measurement**

Frequency counters have an interval (sample rate) when measurement is not performed, so sudden frequency changes during this period cannot be measured.

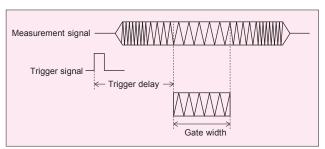
However, the MF2400C series overcomes problems of measuring fast transients by capturing frequency variations at speeds of up to 10  $\mu$ s and saving a maximum of 2000 sampling points. Saved data can be read by a PC host using GPIB. When it is combined with a host computer, frequency changes can be displayed graphically. This is very effective for measuring VCO start-up characteristics and PLL lock times.



Measurement signal

# **Gating Function**

At burst signal measurement, the carrier frequency may be different at the burst start, middle, and end. In the MF2400C series, the carrier signal frequency at any position of the signal (delay time from trigger signal leading edge) and at any specified time (gate time) can be measured using a combination of the gating and trigger delay functions.



# High-stability Reference Crystal Oscillator

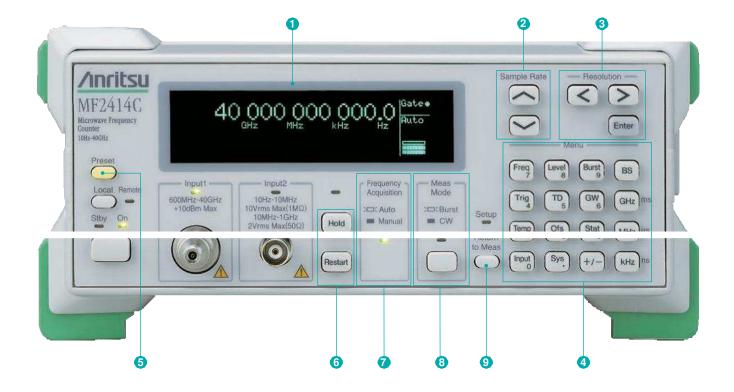
A high-stability reference crystal oscillator is installed as standard in this counter instead of being available as an option in the previous MF2400B series.

It supports an order-of-magnitude better measurement stability than previous instruments without additional investment.

# Added Save and Recall Functions

Up to 10 setups can be saved in the internal memory and freely recalled. Saving complex setups in advance, such as burst triggers and gate settings, supports immediate recall for measurement, reducing both measurement setup time and malfunctions due to setup mistakes.

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- VFD display (256 x 64 dot): Measurement results and parameter settings displayed. Excellent visibility compared to LCD due to self-luminescent display method
- 2 Sample Rate:

Sets measurement off time

**Panel Layout** 

3 Resolution:

At normal measurement, the <a href="https://www.en.word-weight">https://www.en.word-weight</a> the frequency measurement resolution. However, when setting parameters, the <a href="https://www.en.word-weight">https://www.en.word-weight</a> setting parameters, the <a href="https://www.en.word-weight">https://www.en.word-weight</a> item, which is confirmed by pressing the Enter key.

### 4 Menu:

Sets measurement functions, such as frequency, level, burst, etc.

This menu changes automatically to the parameter setting condition, and changes numeric values and units.

5 Preset:

Returns each parameter to default setting

6 Hold, Restart: The Hold key holds the measured valued. When Hold is ON, the key lamp is lit. The Restart key starts measurement over. When the Restart key is pressed when Hold is ON, the data is measured and held.
7 Frequency Acquisition:

Frequency Acquisition.

Used at frequency measurement of Input 1. At Auto, the full frequency band is swept and the frequency of signals exceeding the specified level is measured. At Manual, the frequency in the allowable input frequency range centered on the preset frequency is measured.

## 8 Meas Mode:

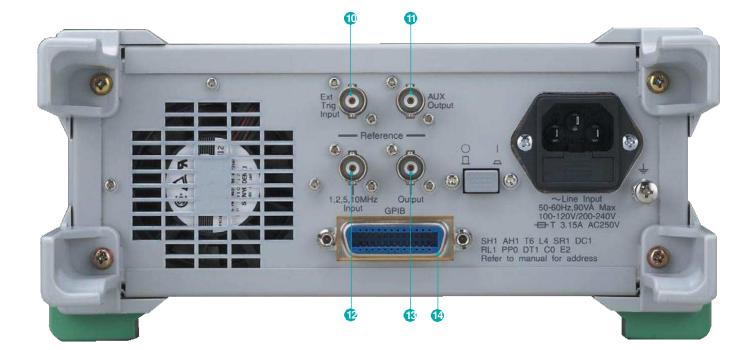
At Burst, the burst signal width, period, and carrier frequency are measured (unrelated to Acquisition key setting, and change to manual measurement condition). Continuous wave measurement is performed in the CW mode.

## 9 Return to Meas:

Pressing this key after setting parameters returns to the normal measurement status (measurement screen).



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- Ext Trig Input: Measures frequency using external timing signal
- AUX Output: Outputs control signal for measurement function and set parameters
- Reference Input: Inputs external reference clock (1, 2, 5, 10 MHz)
- (3) Reference Output: Outputs reference clock
- GPIB Connector: Connects GPIB cable

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**Specifications** 

# • MF2400C Series Microwave Frequency Counter

	Frequency Range	Input 1 MF2412C: 600 MHz to 20 GHz MF2413C: 600 MHz to 27 GHz MF2414C: 600 MHz to 40 GHz Input 2 10 MHz to 1 GHz (50 Ω), 10 Hz to 10 MHz (1 MΩ)		
Input	Input Level Range (Sine Wave Input)	Input 1 -33 to 10 dBm (<12.4 GHz), -28 to 10 dBm (<20 GHz), -25 to 10 dBm (<27 GHz), [-44.6 + 0.741 x frequency (GHz)] to 10 dBm (≤40 GHz) Input 2 25 mVrms to 2 Vrms (50 Ω), 25 mVrms to 10 Vrms (1 MΩ)		
	Impedance, Coupling	Input 1: 50 $\Omega$ , AC coupled Input 2: 50 $\Omega$ or $\geq 1$ M $\Omega$ ( $\leq$ 35 pF), AC coupled		
	Connector	Input 1 MF2412C: N-type, MF2413C: SMA-type, MF2414C: K-type Input 2: BNC-type		
Function	Trigger Mode	Int: Triggered by measurement signal Ext: Triggered by external signal *Trigger level: 1.5 V ± (2 to 10 Vp-p), Trigger pulse width: ≥1 µs, Impedance: ≥100 Ω, Coupling: DC LINE: Triggered by AC line signal		
Gating	Trigger Delay	20 ns to 0.1 s <sup>*1</sup> , Off ( $\leq$ 320 ns in 20 ns steps, and <1 $\mu$ s in 40 ns steps variable; $\geq$ 1 $\mu$ s in continuously variable as effective two digits)		
	Gate Width	100 ns to 0.1 s (<1 $\mu$ s in 20 ns steps variable; $\geq$ 1 $\mu$ s in continuously variable as effective two digits)		
	Frequency Range	MF2412C: 600 MHz to 20 GHz MF2413C: 600 MHz to 27 GHz MF2414C: 600 MHz to 40 GHz		
	Pulse Width	100 ns to 0.1 s (NARROW), 1 µs to 0.1 s (WIDE)		
ement	Pulse Repetition Cycle	340 ns to 0.1 s (pulse off time: $\geq$ 240 ns)		
Pulse Modulation Wave Measurement	Carrier Frequency Measurement <sup>*2</sup>	Max resolution: 1 kHz (pulse width: 100 ns to 1 μs), 100 Hz (pulse width: 1 to 10 μs), 10 Hz (pulse width: 10 to 100 μs), 1 Hz (pulse width: 100 μs to 1 ms), 0.1 Hz (pulse width: 1 to 100 ms) Measurement time: (T or Ts whichever is greater) x {1/(f <sub>R</sub> x T <sub>GW</sub> )} <sup>2</sup> *3 *Example of measurement time when measurement carrier frequency = 1 GHz, T = 2/f <sub>R</sub> , and T <sub>GW</sub> = 0.1f <sub>R</sub> Accuracy: ±2 count ± time base accuracy x measurement frequency ± trigger accuracy ± residual error* <sup>5</sup>		
Pulse	Pulse Width Measurement	Resolution: 1 ns Accuracy: ±20 ns ± time base accuracy x measurement pulse width ± trigger accuracy (time) Unit: μs (fixed)		
	Pulse Period Measurement	Resolution: 1 ns Accuracy: ±20 ns ± time base accuracy x measurement period ± trigger accuracy (time) Unit: μs (fixed)		
Carrier Wave Frequency Measurement	Resolution, Measurement Time			
Carrier Wave Fr	Measurement Accuracy	Input 1 NORMAL: ±1 count ± time base accuracy x measurement frequency ± residual error <sup>*4</sup> FAST: ±1 count ± time base accuracy x measurement frequency ± trigger accuracy ± residual error <sup>*5</sup> Input 2 10 MHz to 1 GHz: ±1 count ± time base accuracy x measurement frequency 10 Hz to 10 MHz: ±1 count ± time base accuracy x measurement frequency ± trigger accuracy		

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Auto FM tolerance: 35 MHzp-p, Acquisition time: ≤50 ms Manual (CW measurement) Imput frequency range: ±30 MHz (600 MHz to 1 GHz), ±40 MHz (≥1 GHz) Acquisition time: 515 ms Manual (Burst measurement) Input frequency range: ±30 MHz (21 GHz, pulse width mode: NARCOW) ±40 MHz (≥1 GHz, pulse width mode: WIDE) ±20 MHz (21 GHz, pulse width mode: WIDE) Acquisition time: 515 msFunctionsTemplate: Inputs at upper/lower limit of frequency, judged Go/No-Go Frequency offset: +offset, pulse width mode: WIDE) Acquisition time: 515 msAUX OutputOutput for Go/No-Go, count end, input level detection, internal gating, restart, and acquisition signal Sample RateHigh-Speed Sample ResolutionInput frequency rape: 1 ms to 10 s (1-25 steps), holdHemory BackupSaved in backup memory at power offDisplayDisplay digits: 12 digits and 1 digit (- mark) VFD: 266 x 64 dotsVFD: 265 x 64 dotsFrequency: 10 MHz Warm-up: 45 x 10°/10 minutes Aging rate: 55 x 10°/10 minutes Aging rate: 55 x 10°/10 gover lot 50°C)External Reference Input External Reference Output1.2, 5, 10 MHz <sup>*®</sup> , Output voltage: 2 to 50°COwer10 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, 500 VA 2 Staterial Sci 50°CDimensions and Mass213 GW) x 88 (H) x 350 (D) mm, ≤5 kgEMCENG(100-3-2LVDENG(100-1			
FunctionsFrequency offset: +offset, -offset, ppmFrequency Statistical processing: mean, maximum, minimum, p-p Save/recall: 10 panel settings (max)AUX OutputOutput for Go/No-Go, count end, input level detection, internal gating, restart, and acquisition signalSample Rate1 ms to 10 s (1-2-5 steps), holdHigh-Speed Sample Period/Frequency ResolutionInput 1: 10 µs/10 kHz, 100 µs/1 kHz, 1 ms/100 Hz Input 2: 10 µs/100 kHz, 100 µs/10 kHz, 1 ms/1 kHz *Measurement frequency: 100 MHzMemory BackupSaved in backup memory at power offDisplayDisplay digits: 12 digits and 1 digit (- mark) VFD: 256 x 64 dotsReference Crystal OscillatorFrequency: 10 MHz Warm-up: ±5 x 10 <sup>-8</sup> /10 minutes Aging rate: ±5 x 10 <sup>-8</sup> /10 minutes Aging rate: ±5 x 10 <sup>-9</sup> /00 kHz, 100 ° to 50°C)External Reference Input External Reference Output1, 2, 5, 10 MHz <sup>-6</sup> , Output voltage: 1 to 5 Vp-p (AC coupled), Input impedance: ≥1 kΩ External Reference OutputExternal ControlGPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2 PowerPower100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA 2013 (W) x 88 (H) x 350 (D) mm, ≤5 kgEMCEN61326 EN61000-3-2	Auto/Manual Measurement	FM tolerance: 35 MHzp-p, Acquisition time: ≤50 ms Manual (CW measurement) Input frequency range: ±30 MHz (600 MHz to 1 GHz), ±40 MHz (≥1 GHz) Acquisition time: ≤15 ms Manual (Burst measurement) Input frequency range: ±30 MHz (600 MHz to 1 GHz, pulse width mode: WIDE) ±20 MHz (≥1 GHz, pulse width mode: NARROW) ±40 MHz (≥1 GHz, pulse width mode: WIDE)	
Sample Rate1 ms to 10 s (1-2-5 steps), holdHigh-Speed Sample Period/FrequencyInput 1: 10 $\mu$ s/10 kHz, 100 $\mu$ s/1 kHz, 1 ms/100 Hz Input 2: 10 $\mu$ s/100 kHz, 100 $\mu$ s/10 kHz, 1 ms/1 kHz *Measurement frequency: 100 MHzMemory BackupSaved in backup memory at power offDisplayDisplay digits: 12 digits and 1 digit (– mark) VFD: 256 x 64 dotsReference Crystal OscillatorFrequency: 10 MHz Warm-up: $\pm 5 \times 10^{-8}/10$ minutes Aging rate: $\pm 5 \times 10^{-8}/10$ minutes Aging rate: $\pm 5 \times 10^{-8}/20$ ( $\pm 5 \times 10^{-8}$	Functions	Frequency offset: +offset, -offset, ppm Statistical processing: mean, maximum, minimum, p-p	
High-Speed Sample Period/Frequency ResolutionInput 1: 10 $\mu$ s/10 kHz, 100 $\mu$ s/1 kHz, 1 ms/100 Hz Input 2: 10 $\mu$ s/100 kHz, 100 $\mu$ s/10 kHz, 1 ms/1 kHz 	AUX Output	Output for Go/No-Go, count end, input level detection, internal gating, restart, and acquisition signal	
Period/Frequency Resolution       Input 2: 10 μs/100 kHz, 100 μs/10 kHz, 1 ms/1 kHz *Measurement frequency: 100 MHz         Memory Backup       Saved in backup memory at power off         Display       Display digits: 12 digits and 1 digit (– mark) VFD: 256 x 64 dots         Reference Crystal Oscillator       Frequency: 10 MHz Wam-up: ±5 x 10 <sup>-8</sup> /10 minutes Aging rate: ±5 x 10 <sup>-9</sup> /day, ±8 x 10 <sup>-8</sup> /year (after 24 h warm-up) Temperature characteristics: ±5 x 10 <sup>-8</sup> (0° to 50°C)         External Reference Input       1, 2, 5, 10 MHz, Input voltage: 1 to 5 Vp-p (AC coupled), Input impedance: ≥1 kΩ         External Reference Output       1, 2, 5, 10 MHz, Nottage: ≥2 Vp-p (open end, AC coupled), Output impedance: ≤400 Ω         External Control       GPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2         Power       100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VA         Operating Temperature       0° to 50°C         Dimensions and Mass       213 (W) x 88 (H) x 350 (D) mm, ≤5 kg         EMC       EN61326 EN61000-3-2	Sample Rate		
DisplayDisplay digits: 12 digits and 1 digit (- mark) VFD: 256 x 64 dotsReference Crystal OscillatorFrequency: 10 MHz Warm-up: ±5 x 10 <sup>-8</sup> /10 minutes Aging rate: ±5 x 10 <sup>-9</sup> /day, ±8 x 10 <sup>-8</sup> /year (after 24 h warm-up) Temperature characteristics: ±5 x 10 <sup>-6</sup> (0° to 50°C)External Reference Input1, 2, 5, 10 MHz, Input voltage: 1 to 5 Vp-p (AC coupled), Input impedance: ≥1 kΩExternal Reference Output1, 2, 5, 10 MHz, fourt voltage: 2 Vp-p (open end, AC coupled), Output impedance: ≤400 ΩExternal ControlGPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2Power100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VAOperating Temperature0° to 50°CDimensions and Mass213 (W) x 88 (H) x 350 (D) mm, ≤5 kgEMCEN61326 EN61000-3-2	Period/Frequency	Input 2: 10 µs/100 kHz, 100 µs/10 kHz, 1 ms/1 kHz	
DisplayVFD: 256 x 64 dotsReference Crystal OscillatorFrequency: 10 MHz Warm-up: ±5 x 10 <sup>-8</sup> /10 minutes Aging rate: ±5 x 10 <sup>-9</sup> /day, ±8 x 10 <sup>-8</sup> /year (after 24 h warm-up) Temperature characteristics: ±5 x 10 <sup>-8</sup> (0° to 50°C)External Reference Input1, 2, 5, 10 MHz, Input voltage: 1 to 5 Vp-p (AC coupled), Input impedance: ≥1 kΩExternal Reference Output1, 2, 5, 10 MHz, Input voltage: 2 Vp-p (open end, AC coupled), Output impedance: ≤400 ΩExternal ControlGPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2Power100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VAOperating Temperature0° to 50°CDimensions and Mass213 (W) x 88 (H) x 350 (D) mm, ≤5 kgEMCEN61326 EN61000-3-2	Memory Backup	Saved in backup memory at power off	
Reference Crystal OscillatorWarm-up: $\pm 5 \ge 10^{-8}/10$ minutes Aging rate: $\pm 5 \ge 10^{-9}/day$ , $\pm 8 \ge 10^{-8}/year$ (after 24 h warm-up) Temperature characteristics: $\pm 5 \ge 10^{-8}$ (0° to 50°C)External Reference Input1, 2, 5, 10 MHz, Input voltage: 1 to 5 Vp-p (AC coupled), Input impedance: $\ge 1 \ k\Omega$ External Reference Output1, 2, 5, 10 MHz, for under the second seco	Display		
External Reference Output1, 2, 5, 10 MHz*6, Output voltage: $\geq 2$ Vp-p (open end, AC coupled), Output impedance: $\leq 400 \Omega$ External ControlGPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2Power100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, $\leq 90$ VA $\leq$ , $\leq 80$ VAOperating Temperature0° to 50°CDimensions and Mass213 (W) x 88 (H) x 350 (D) mm, $\leq 5$ kgEMCEN61326 EN61000-3-2		Warm-up: $\pm 5 \times 10^{-8}/10$ minutes Aging rate: $\pm 5 \times 10^{-9}/day$ , $\pm 8 \times 10^{-8}/year$ (after 24 h warm-up)	
External Control         GPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2           Power         100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VA           Operating Temperature         0° to 50°C           Dimensions and Mass         213 (W) x 88 (H) x 350 (D) mm, ≤5 kg           EMC         EN61326 EN61000-3-2	External Reference Input	1, 2, 5, 10 MHz, Input voltage: 1 to 5 Vp-p (AC coupled), Input impedance: $\geq 1 \text{ k}\Omega$	
Power         100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VA           Operating Temperature         0° to 50°C           Dimensions and Mass         213 (W) x 88 (H) x 350 (D) mm, ≤5 kg           EMC         EN61326 EN61000-3-2	External Reference Output	1, 2, 5, 10 MHz <sup>*6</sup> , Output voltage: ≥2 Vp-p (open end, AC coupled), Output impedance: ≤400 Ω	
Operating Temperature         0° to 50°C           Dimensions and Mass         213 (W) x 88 (H) x 350 (D) mm, ≤5 kg           EMC         EN61326 EN61000-3-2	External Control	GPIB (conforms to IEEE488.2 standards): SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0, E2	
Dimensions and Mass         213 (W) x 88 (H) x 350 (D) mm, ≤5 kg           EMC         EN61326 EN61000-3-2	Power	100 to 120 V/200 to 240 V (auto-switching), 50 to 60 Hz, ≤90 VA≤, ≤80 VA	
EMC EN61326 EN61000-3-2	Operating Temperature	0° to 50°C	
EMC EN61000-3-2	Dimensions and Mass	213 (W) x 88 (H) x 350 (D) mm, ≤5 kg	
LVD EN61010-1	EMC		
	LVD	EN61010-1	

\*1 Delay time until counter started by trigger detection

ernational,

\*2 MANUAL measurement mode

\*3 fR: frequency resolution, T<sub>GW</sub>: gate width, Ts: processing time (50  $\mu$ s), T: Pulse repetition cycle

\*4 Measurement frequency (GHz)/10 count (rms), 5 GHz Measurement example: 5/10 = 0.5 count (rms)

\*5 Measurement frequency (GHz)/2 count (rms), 5 GHz Measurement example: 5/10 = 0.5 count (rms)

\*6 10 MHz when using internal reference signal; outputs signal based on this signal (1, 2, 5, 10 MHz) when using external reference signal

## Options: Crystal Oscillator

Option Number	MF2412C-003	MF2413C-003	MF2414C-003
Frequency	10 MHz		
Aging Rate	$\pm 5 \times 10^{-10}$ /day, $\pm 2 \times 10^{-8}$ /year *After power-on, with reference to frequency after 72 h		
Temperature Characteristics	$\pm 5 \times 10^{-9}$ -10° to 60°C (with reference to 25°C)		

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Please specify the model/order number, name and quantity when ordering. The following name of articles is an order name. The actual name may differ name from the product.

Model/Order No.	Name	
MF2412C MF2413C	- Main frame - Microwave Frequency Counter (10 Hz to 20 GHz, N-J connector) Microwave Frequency Counter (20 Ubst 27 OUE - 20 Main terrester)	
MF2414C	(10 Hz to 27 GHz, SMA-J connector) Microwave Frequency Counter (10 Hz to 40 GHz, K-J connector)	
F0012 W2897AE	- Standard accessories - Power Cord, 2.5 m: Fuse, 3.15 A: MF2412C/2413C/2414C Operation Manual:	1 pc 2 pcs 1 copy
MF2412C-003 MF2413C-003 MF2414C-003	<b>– Options –</b> Crystal Oscillator (5 x 10 <sup>-10</sup> /day) Crystal Oscillator (5 x 10 <sup>-10</sup> /day) Crystal Oscillator (5 x 10 <sup>-10</sup> /day)	

International,

\*1: The K224B Coaxial Adapter prevents damage to the input connector. \*2: The MF2400C series has the MP612A Fuse Holder (with MP613A Fuse Element) to prevent over-power input.

In addition, the MP612A Fuse Holder has an N-type connector, so an adapter matching the coupled connector type is required.



#### Anritsu Corporation

5-1-1 Onna, Atsugi-shi, Kanagawa, 243-8555 Japan Phone: +81-46-223-1111 Fax: +81-46-296-1238

# • U.S.A.

Anritsu Company 1155 East Collins Blvd., Suite 100, Richardson, TX 75081, U.S.A. Toll Free: 1-800-267-4878 Phone: +1-972-644-1777 Fax: +1-972-671-1877

#### Canada

Anritsu Electronics Ltd. 700 Silver Seven Road, Suite 120, Kanata, Ontario K2V 1C3, Canada Phone: +1-613-591-2003 Fax: +1-613-591-1006

 Brazil Anritsu Eletrônica Ltda.

Praça Amadeu Amaral, 27 - 1 Andar 01327-010 - Bela Vista - São Paulo - SP - Brasil Phone: +55-11-3283-2511 Fax: +55-11-3288-6940

 Mexico Anritsu Company, S.A. de C.V.

Av. Ejército Nacional No. 579 Piso 9, Col. Granada 11520 México, D.F., México Phone: +52-55-1101-2370 Fax: +52-55-5254-3147

• U.K. Anritsu EMEA Ltd. 200 Capability Green, Luton, Bedfordshire, LU1 3LU, U.K. Phone: +44-1582-433200 Fax: +44-1582-731303

#### France Anritsu S.A. 12 avenue du Québec, Bâtiment Iris 1- Silic 638, 91140 VILLEBON SUR YVETTE, France Phone: +33-1-60-92-15-50 Fax: +33-1-64-46-10-65

## Germany Anritsu GmbH Nemetschek Haus, Konrad-Zuse-Platz 1 81829 München, Germany Phone: +49-89-442308-0

Fax: +49-89-442308-55 Printed on Recycled Paper

#### Italy Anritsu S.p.A.

Via Elio Vittorini 129, 00144 Roma, Italy Phone: +39-6-509-9711 Fax: +39-6-502-2425

# Sweden

Anritsu AB Borgafjordsgatan 13, 164 40 KISTA, Sweden Phone: +46-8-534-707-00 Fax: +46-8-534-707-30

# Finland

Anritsu AB Teknobulevardi 3-5, FI-01530 VANTAA, Finland Phone: +358-20-741-8100 Fax: +358-20-741-8111

Denmark

#### Anritsu A/S (Service Assurance) Anritsu AB (Test & Measurement) Kirkebjerg Allé 90, DK-2605 Brøndby, Denmark Phone: +45-7211-2200 Fax: +45-7211-2210

#### Russia

Anritsu EMEA Ltd. Representation Office in Russia Tverskaya str. 16/2, bld. 1, 7th floor. Russia, 125009, Moscow Phone: +7-495-363-1694 Fax: +7-495-935-8962

### United Arab Emirates

Fax: +971-4-3688460

Anritsu EMEA Ltd. **Dubai Liaison Office** P O Box 500413 - Dubai Internet City Al Thuraya Building, Tower 1, Suit 701, 7th Floor Dubai, United Arab Emirates Phone: +971-4-3670352

 Singapore Anritsu Pte. Ltd. 60 Alexandra Terrace, #02-08, The Comtech (Lobby A) Singapore 118502 Phone: +65-6282-2400 Fax: +65-6282-2533

#### Coaxial Cord (N-P • SF104P • N-P), 2 m Coaxial Cord (APC3.5-P • SF104P • APC3.5-P), 2 m J0853\*4 J0854\*5 MP612A\*2 Fuse Holder (N-P • N-J, DC to 1 GHz) MP613A\*2 Fuse Element (DC to 1 GHz, Power rating: +17 dBm, Failsafe rating: $\geq +35$ dBm) J0007 GPIB Cable, 1 m GPIB Cable, 2 m J0008 Carrying Case (With B0329L Protection Cover) B0409 B0598A Carrying Bag (soft type, with B0329L Protection Cover) Rack Mount Kit (19" type, one unit) Rack Mount Kit (19" type, two units, side-by-side) B0390G B0411A B0329I Protection Cover \*3: ME2414C Parts

Optional accessories

Coaxial Cord (K-P • K-P), 2 ft

Coaxial Adapter

Coaxial Adapter

Name

(K-P • K-J, SMA compatible, DC to 40 GHz, SWR: 1.2)

(ruggedized K-P • N-J, DC to 20 GHz, SWR: 1.25)

Coaxial Cord (BNC-P • RG-58A/U • BNC-P), 1 m

\*4: MF2412C Parts

Model/Order No.

K224B\*1,\*3

34RKNF50\*3

J0527\*3

J0127A

\*5: MF2413C and MF2414C Parts

Specifications are subject to change without notice.

# India

Anritsu Pte. Ltd. India Branch Office

3rd Floor, Shri Lakshminarayan Niwas, #2726, 80 ft Road, HAL 3rd Stage, Bangalore - 560 075, India Phone: +91-80-4058-1300 Fax: +91-80-4058-1301

#### P.R. China (Hong Kong) Anritsu Company Ltd.

Units 4 & 5, 28th Floor, Greenfield Tower, Concordia Plaza, No. 1 Science Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong Phone: +852-2301-4980 Fax: +852-2301-3545

#### P.R. China (Beijing) Anritsu Company Ltd. **Beijing Representative Office**

Room 2008, Beijing Fortune Building No. 5, Dong-San-Huan Bei Road, Chao-Yang District, Beijing 100004, P.R. China Phone: +86-10-6590-9230 Fax: +86-10-6590-9235

## Korea

Anritsu Corporation, Ltd. 8F Hyunjuk Building, 832-41, Yeoksam Dong, Kangnam-ku, Seoul, 135-080, Korea Phone: +82-2-553-6603 Fax: +82-2-553-6604

## Australia

Anritsu Pty. Ltd. Unit 21/270 Ferntree Gully Road, Notting Hill, Victoria 3168, Australia Phone: +61-3-9558-8177 Fax: +61-3-9558-8255

# Taiwan

Anritsu Company Inc. 7F, No. 316, Sec. 1, Neihu Rd., Taipei 114, Taiwan Phone: +886-2-8751-1816 Fax: +886-2-8751-1817

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