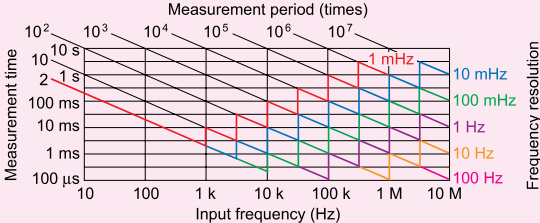


Specifications

MF2400B Series

Input	Frequency range	INPUT 1 MF2412B: 600 MHz to 20 GHz MF2413B: 600 MHz to 27 GHz MF2414B: 600 MHz to 40 GHz INPUT 2 10 MHz to 1 GHz (50 Ω), 10 Hz to 10 MHz (1 MΩ)																
	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 Ω, AC couple INPUT 2: 50 Ω or ≥1 MΩ (≤35 pF), AC couple																
	Connector	INPUT 1 MF2412B: N-type, MF2413B: SMA-type, MF2414B: K-type INPUT 2: BNC-type																
Gating 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																
	Trigger delay	20 ns to 0.1 s*1, off (≤320 ns in 20 ns steps, and <1 μs in 40 ns steps variable; ≥1 μs in continuously variable as effective two digits)																
	Gate width	100 ns to 0.1 s (<1 μs in 20 ns steps variable; ≥1 μs in continuously variable as effective two digits)																
Pulse modulation wave measurement	Frequency range	MF2412B: 600 MHz to 20 GHz MF2413B: 600 MHz to 27 GHz MF2414B: 600 MHz to 40 GHz																
	Pulse width	100 ns to 0.1 s (NARROW), 1 μs to 0.1 s (WIDE)																
	Pulse repetition frequency	10 Hz to 4 MHz (pulse off time: ≥240 ns)																
	Carrier frequency measurement*2	Max. resolution: 10 kHz (pulse width: 100 ns to 1 μs), 1 kHz (pulse width: 1 to 10 μs), 100 Hz (pulse width: 10 to 100 μs), 10 Hz (pulse width: 0.1 to 1 ms), 1 Hz (pulse width: 1 to 10 ms), 0.1 Hz (pulse width: 10 to 100 ms) Measurement time: (T or T _s whichever is greater) x {1/(f _R x TGW)} ² *3 <table border="1"> <thead> <tr> <th>Resolution</th> <th>1 Hz</th> <th>10 Hz</th> <th>100 Hz</th> <th>1 kHz</th> <th>10 kHz</th> <th>100 kHz</th> <th>1 MHz</th> </tr> </thead> <tbody> <tr> <th>Measurement time</th> <td>200 s</td> <td>20 s</td> <td>2 s</td> <td>200 ms</td> <td>20 ms</td> <td>5 ms</td> <td>5 ms</td> </tr> </tbody> </table> *Measurement carrier frequency: 1 GHz (TGW*3 = 0.1/f _R) Accuracy: ±1 count ±time base accuracy x measurement frequency ±trigger accuracy ±residual error*5 ±1/TGW*3	Resolution	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz	Measurement time	200 s	20 s	2 s	200 ms	20 ms	5 ms	5 ms
	Resolution	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz										
	Measurement time	200 s	20 s	2 s	200 ms	20 ms	5 ms	5 ms										
Pulse width measurement	Resolution: 1 ns Accuracy: ±20 ns ±time base accuracy x measurement pulse width ±trigger accuracy Unit indication: μs (fixed)																	
Pulse period measurement	Resolution: 1 ns Accuracy: ±20 ns ±time base accuracy x measurement period ±trigger accuracy Unit indication: μs (fixed)																	
Carrier wave frequency measurement	Resolution, gate time	INPUT 1 NORMAL: 1 MHz/1 μs to 0.1 Hz/10 s FAST: 1 MHz/0.18 μs to 0.1 Hz/1.8 s (typical) INPUT 2 10 MHz to 1 GHz (50 Ω): 1 MHz/1 μs to 0.1 Hz/10 s 10 Hz to 10 MHz (1 MΩ): Shown below 																
	Measurement accuracy	INPUT 1 NORMAL: ±1 count ±time base accuracy x measurement frequency ±residual error*4 FAST: ±1 count ±time base accuracy x measurement frequency ±trigger accuracy ±residual error*5 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																