

MPF2005/2010/2015/2020



MPF2010B



MPF2010A

Features

- .Using Direct Digital Synthesis(DDS) technology
- .2mV Output Amplitude for Small Signal
- .1 μ Hz~20MHz frequency range for main waveforms
- .100MHz equal-accuracy frequency counter(optional)
- .32 kinds of output waveform
- .Blue-White LCD display for A series
- .Optional 3.5" TFT display for B series
- .Pulse duty cycle resolution up to 1%
- .Burst mode with a continuous phase adjustment function
- .Optional CHB output
- .RS232 interface (optional)
- .Optional arbitrary waveform (MPF2000B series)

Technical Data		MPF2005/2010/2015/2020	
Main output	Output frequency	1 μ Hz ~ 5MHz(MPF2005) 1 μ Hz~10MHz (MPF2010) 1 μ Hz ~ 15MHz(MPF2015) 1 μ Hz~20MHz (MPF2020)	
	Output amplitude	2mVp-p~20Vp-p 1 μ Hz ~ 10MHz(1M Ω) 2mVp-p~15Vp-p 10MHz ~ 15MHz(1M Ω) 2mVp-p~8Vp-p 15MHz ~ 20MHz(1M Ω)	
	Output wave	sine, square, pulse, DC and etc.	
	Output modulation	single frequency, sweep frequency, FM, FSK, PSK, Brust	
	Wave length	1024 points	
	Wave accuracy	8bits	
	Sampling rate	100Msa/s	
	Frequency resolution	1 μ Hz	
	Frequency accuracy	$\leq \pm 0.00005\%$	
	Amplitude resolution	20mVp-p(>2V); 2mVp-p(<2V)	
	Amplitude accuracy	$\leq \pm (1\% + 2mV_{rms})$	
	Amplitude flatness	$\pm 5\%$ (f<10MHz); $\pm 10\%$ (f>10MHz)	
	Offset range	$\pm 10V$	
	Offset resolution	20mVdc	
	Offset error	$< \pm (1\% + 20mVdc)$	
	FM modulation deviation	Max.20%	
	PM modulation range	0~ 360.0°	
	Phase resolution	1°	
Sine wave	Harmonic distortion	-40dBC(<1MHz) -35dBC(1MHz~20MHz)	
	Distortion factor	$\leq 1\%$ (20Hz~200kHz)	
Square wave	Rise time	$\leq 35ns$	
	SYMM.	1% ~ 99% adjustable	
TTL output	Rise or fall time	$\leq 20ns$	
	Low level	$< 0.3V$	
	Sweep mode	$> 4V$	
Sweep	Sweep mode	Lin./log. Up and down	
	Sweep time	100ms~600s	
CHB output	Output frequency	10mHz~1MHz	
	Impedance	50 Ω	
	Output amplitude	50mVp-p~20Vp-p (1M Ω)	
	Output waveform	sine, square, triangle, ramp, ladder and etc.32waveforms	
	Frequency resolution	1 μ Hz	
	Frequency accuracy	$\leq \pm (0.00001\%)$	
	Amplitude resolution	20mV	
	Wave length	1024 points	
Counter(Optional)	Wave accuracy	8bits	
	Frequency range	1Hz ~ 100MHz	
	Input amplitude	100mVp-p~20Vp-p	
Power output (Optional)	Max. power	7W (8 Ω), 1W (50 Ω)	
	Max. voltage	22Vp-p	
	Frequency range	1Hz~200kHz	
Power supply		110 ~ 127VAC $\pm 10\%$ /220 ~ 240VAC $\pm 10\%$, 50Hz ± 2 Hz/60Hz ± 2 Hz	
Dimensions(W $\times$ H $\times$ D)		260 $\times$ 110 $\times$ 385mm	
Weight		3.5 kg	

