

# FILTERS

## DUAL CHANNEL PROGRAMMABLE FILTER

3624 / 3625 / 3627 / 3628



3624



3627

### FEATURES

- Wide cutoff frequency
- Various filter modes
- Cutoff frequency selectable (3-1/2 digit resolution)
- ×1, ×2, ×5 selectable passband gain at both input and output
- Single-ended or floating input (selectable)
- Low distortion about 0.02% \*1 and low noise about 100 μVrms \*2

\* 1 typ. value for 5kHz or lower of input frequency for 3624/3625

\* 2 for 3624 and 3625 (BW = 100kHz)

### SELECTION GUIDE

Model	3624	3625	3627	3628
Cutoff frequency	0.01Hz to 159.9kHz		1Hz to 1.59MHz	
No. of channels	2	2	2	2
Roll off	24dB/oct	48dB/oct	24dB/oct	48dB/oct

### SPECIFICATIONS

Model	3624	3625	3627	3628
No. of channel	2(CH-A and CH-B)			
Function	THRU (via only input and output amplifiers), LP-MF (max. flat<Butterworth>), LP-PL (phase linear <Bessel>), HPE, BPF and BEF			
Mode	SEPARATE (independent operating CH-A and CH-B), CASCADE (cascaded CH-A and CH-B)			
Passband gain	×1, ×2, ×5 selectable respectively on input and output amplifiers			
Frequency response in THRU mode	DC to 1 MHz (+0.5, -3 dB) typ. *1		DC to 2 MHz (+0.5, -3 dB) typ. *1	
Input type	Single-ended or floating, selectable			
Input impedance	1MΩ ±2%			
Output impedance	50Ω ±2%(1 kHz), single-ended			
Max. output voltage	±10 V/no load, ±5V/50 Ω load*3		±10 V/no load, ±5V/50 Ω load*4	
Max. output current	±100 mA			
Max. attenuation	100 dB or greater (up to 100 kHz) 80 dB or greater (up to 1MHz)		90 dB or greater (up to 100 kHz), 70 dB or greater (up to 2 MHz)	
GPIB	All settings and inquiries of panel setting other than POWER, FLOAT and ZERO			
Memory	The panel settings at power off are memorized.			
Power requirements	AC100, 120, 200 or 240 V ±10%, selectable (Max. 250 V)			
Dimensions	434(W)×132.5(H)×400(D) mm excluding protrusions A Mountable into a JIS/EIA standard rack cabinet with an exclusive rack mounting kit			
Weight	Approx. 10.0 kg	Approx. 10.5 kg	Approx. 10.0 kg	Approx. 10.5 kg

\*1 Input and output gains : ×1, input voltage : 1 Vrms

## MULTIFUNCTION FILTER

3611



### SPECIFICATIONS

Cutoff frequency	0.1Hz to 21.8kHz 2-digit setting with five ranges
Rolloff	24dB/oct (lowpass and highpass) 1/3 oct bandwidth(Bandpass)
No. of channel	1
Filter mode	Lowpass, Highpass, Bandpass, Bandelimination or THRU
Filter type	Highpass: Maximum flatness Lowpass: Maximum flatness or phase-linear, selectable
Gain setting	0 to 20dB (±0.5dB)
Power requirements	AC100, 120, 220 or 240V ±10%, switchable
Dimensions (mm)	216(W)×132.5(H)×290(D)
Weight	Approx. 2.6kg

### FEATURES

- 2-digit setting of cutoff frequency
- Selectable frequency response
- 0 or 20dB selectable passband gain
- Low cost



**FEATURES**

- Highest cut-off frequency of 100MHz
- Variable cut-off frequency
- Group delay ripple : 5nsp-p or less
- LP-MF and LP-PL, selectable

**SPECIFICATIONS**

Cutoff frequency	1MHz to 100MHz
Filter mode	LP-MF(maximum flat), LP-PL(phase linear), HPF-MF, THRU
Pass band gain	$\times 1, \times 2, \times 5$ and $\times 10$
Rolloff	48dB/oct
Input impedance	50Ω or 75Ω*
Input equivalent noise	500μ Vrms or less at BW=1GHz
Output impedance	50Ω or 75Ω*
GPIB	SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT0, C0
Power requirements	AC100, 120, 220 or 240V ±10% (max. 250V) approx. 60VA
Dimensions(mm)	432(W)×132.5(H)×400(D)
Weight	approx. 11.5kg

\* specify when you order



**FEATURES**

- Wide cutoff frequency range: LPF 1Hz to 10MHz, HPF 1Hz to 3MHz, and BPF combination of LPF and HPF
- LPF can be switched over maximum flatness and phase linear responses.

**SPECIFICATIONS**

Filter modes	LPF, HPF, BPF or THRU
Filter types	LPF: Maximum flatness or phase linear, selectable HPF: Maximum flatness
Cutoff frequency	LPF: 1Hz to 10MHz HPF: 1Hz to 3MHz
Rolloff	24dB/oct
No. of channel	1
Input impedance	1MΩ or 50Ω // 50pF, selectable
Pass band gain	0±0.7dB*
Harmonic distortion	0.3% or less (at 100kHz or less)
S/N ratio	60dB or greater (at 100MHz or less)
DC offset	Adjustable to zero
Power requirements	AC100, 120, 220 or 240V ± 10%, switchable
Dimensions & Weight	429(W) × 99(H) × 350(D)(mm), approx. 8kg

\* 0dB±1.5dB when the multiplier range for frequency setting is selected.



The DV-12 is a bandpass filter with a center frequency which is selectable over eight points. Combined with a mix-tape where several frequencies' sinewave are multi-recorded, this model enables adjustment and inspection of cassette tape recorder.

**SPECIFICATIONS**

No. of channels	Stereo 2ch
Center frequency	63, 125, 315, 1k, 6.3k, 8k, 10k, 12.5k, THRU
Frequency selection	via front panel: by push buttons external: by remote controller (option)
Attenuation	Approx. 35dB (at $f_0 \times 2$ and $\times 0.5$ )
Constant output for wow-flutter measurement	3kHz at R-CH (modifiable to 3.15kHz and L-CH)
Input impedance	1MΩ typ., single-ended
Harmonic distortion	0.05 % or less (at 1kHz and ±5V output)
Crosstalk between channel	70dB (at 1kHz and ±5V output)
Power requirements	AC100V, 120 or 230V switchable
Dimensions (mm)	225(W)×67(H)×250(D)
Weight	Approx. 2.4kg

**Option** Frequency remote controller, Adaptor for BTL (the max. input voltage ±14V)  
Modification of frequency



The 3346A enables an effective measuring of signal/noise ratio, dynamic range, harmonic distortion ratio, channel separation and cross modulation distortion ratio prescribed by the standard.

**SPECIFICATIONS**

No. of input channel	1 (L/R selectable)
Input impedance	1MΩ /10kΩ (unbalanced, selectable)
Output impedance	100Ω or less (unbalanced)
Input voltage	2mVrms in MON mode, 2Vrms in other modes
Cutoff frequency of lowpass filter	20kHz (14.5kHz, 22kHz or 44kHz is also possible to change as option)
S/N ratio	111dB (2Vrms output)
Channel separation	100dB or greater
Power requirements	AC100V, 120 or 230V switchable
Dimensions(mm)	215(W)×88(H)×300(D)