

ACTIVE FILTER

MULTI PRODUCTS/CAPAR

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T-64-05

- High precision and high reliability active filter based on our excellent LC filter technology.
- Size reduced thanks to extremely efficient design using bare chip ICs and other special techniques.
- Available for almost all applications and concentrated in facsimiles, modems, and mobile radio.
- The period from manufacturing the prototype until starting mass production is very short because we have introduced advanced production equipment.



<For mobile radio>

Type	Pass band	Attenuation	W×H×T (mm)
ALP220DMA1	50Hz~200Hz	310Hz~20kHz : -35dB	28×12×5.5
ALP3000DMA1	100Hz~2.625kHz	5.25kHz : -18dB	15.5×12×5.5
ALP3150DMA1	100Hz~2.5kHz	5.9kHz : -35dB	27×12×5
AHP300DMA1	300Hz~5kHz	150Hz : -24dB	15×12×5
AHP300DMA2	280Hz~10kHz	50~210Hz : -33dB	28×12×5.5
ABP1000DMB2	370Hz~3kHz	100Hz, 8kHz : -35dB	33×15×6.5

<For modem>

Application	Center frequency (fo)	Pass band	Attenuation	W×H×T (mm)
9600BPS (Receiving)	1300Hz	fo ± 20Hz	fo ± 100Hz : -34dB MAX	38×15×6.5
9600BPS (Transmission)	3290Hz	fo ± 40Hz	fo ± 200Hz : -55dB MAX	42×21×5

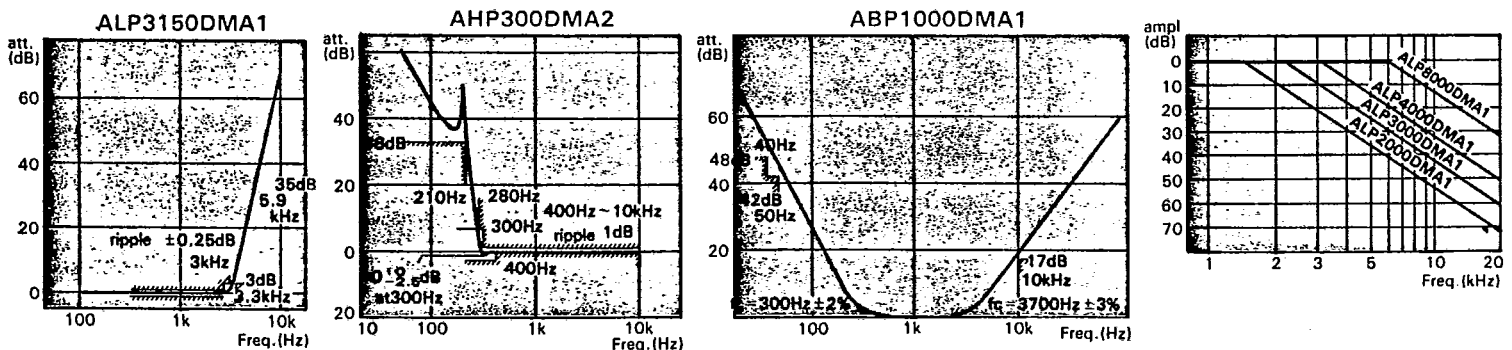
<For facsimile>

Type	Pass band	Attenuation	W×H×T (mm)
ALP3000DMB1	20Hz~3kHz	10kHz : -60dB	34×12×6.5
ALP3400DMA1	20Hz~3.4kHz	6.8kHz : -23dB	22×12×6.5
ALP3700DMA1	100Hz~3.7kHz	6kHz : -30dB	37×15×6.5
ABP1000DMA1	300Hz~3.7kHz	50Hz : -42dB, 10kHz : -17dB	33×15×6.5
ADQ2000DMA1	fo=2kHz 300~2400Hz : -1dB		47×15×6.5
AET1300DMB1	fo=1.3kHz 1280~1320Hz : -3dB		47×15×6.5

<For voice synthesizer>

Type	Pass band	Attenuation	W×H×T (mm)
ALP2000DMA1	10Hz~1.75kHz	3.5kHz : -18dB	15.5×12×5
ALP3000DMA1	10Hz~2.625kHz	5.25kHz : -18dB	15.5×12×5
ALP4000DMA1	10Hz~3.5kHz	7kHz : -18dB	15.5×12×5
ALP8000DMA1	10Hz~7kHz	14kHz : -18dB	15.5×12×5
ALP4000DMB1	10Hz~3.5kHz	8kHz : -40dB	34×12×5

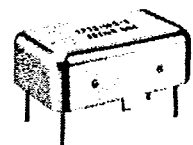
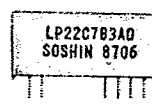
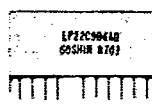
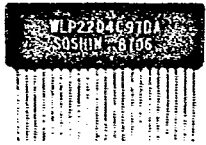
<Example of characteristics>



ACTIVE FILTER

For audio products

- Active filter best suited for CD player LVD player and satellite broadcasting
- Bare chip and wire-bonding types are fully utilized, resulting in a more compact filter having fewer contacts in comparison with the mini-mold IC-mount type. (Mount type used for studio equipment.)
- All circuits used in this unit are GIC type, which ensures better characteristics and sound quality than the feedback type.
- A complete-operation product at single 5V power is available.
- The characteristics are best suited to peripheral circuits such as D/A converters or digital filters.
- No magnetic material is used.



<For satellite broadcasting>

Type	Features
LP15C7B2	Buffer amp. incorporated
LP20C7B1	De-emphasis incorporated
LP20C9B3	High attenuation type
LP20C9B6	De-emphasis incorporated
WLP20D7B8	2-channel integrated type

<For mobile use>

Type	Features
WLP20D5B8TS-C-F	For CD (Low attenuation 2fs digital filter)
WLP20D7B8-C-F	For CD (High attenuation type)
WLP22D5B8-C-F	For DAT (D/A-side 2fs)

<For fs = 48kHz>

Type	Features
LP22C9C8	High attenuation type Low cost type
LP22C9B2AE	High attenuation type (With buffer amp.)
WLP22D9C2AE	High attenuation type (With buffer amp.) 2-channel integrated type
LP22C7C3	For 2fs (applicable to 32k mode)
LP22C7C3AD	For 2fs (applicable to 32k mode)

<For digital amp.>

Type	Features
LP22C7C3	High attenuation type for 2fs (for 3modes)
WLP20F3C4	For 4fs, 2-channel integrated type with de-emphasis and muting switch.
LP22D5B3H4	For 4fs, High performance OP-AMP. used
LP22D5B3YS	For 4fs, low attenuation digital filter.
LP20D3B1	For 4fs with de-emphasis.
LP22D4B4TDA	For 4fs, I/V conversion type with de-emphasis and muting switch.

<For CD (2fs)>

Type	Features
LP20D5B3	Low cost type
LP20D5B1PGS	With de-emphasis switch
WLP20D5B8TS	For low attenuation digital filter (2-channel integrated type)

<For CD>

Type	Features
LP20C7B1	De-emphasis incorporated
LP20C9B3	High attenuation type
LP20C9B6	High attenuation type De-emphasis incorporated
LP20D7B3H	High performance OP-AMP. used
WLP20D7B8	Compact product, 2-channel integrated type.
WLP20D9B8	High attenuation type, 2-channel integrated type.

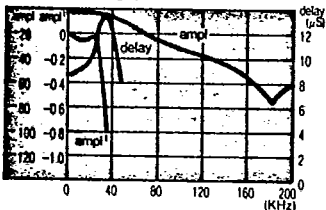
<Other>

Type	Application/Features
LP11C9B3	For musical instruments High attenuation type
LP17D16B6CDI	For CD-I, 17k mode/8.5k mode integrated type

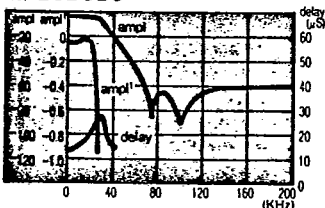
<For studio equipment>

Type	Features
LP30-3P0-S	4fs low distortion type
LP30-5P0-S	2fs low distortion type
LP30-7P2-S	2fs high attenuation type
LP20-11S-S	11th dimension high attenuation type

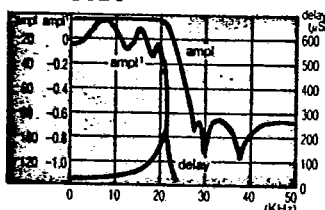
WLP20F3C4



LP20D5B3



LP20C9B3 WLP20D9B8
LP20C9B6



LP22C9B2AE

