

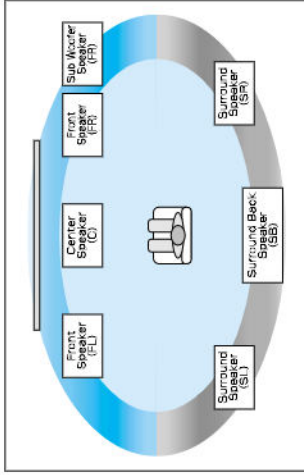
AV Amp/DVD Receiver

AVアンプ/DVDレシーバ用 ASP

ドルビーやDTS等によるオーディオソースのマルチチャネル化に対応する

高性能多チャネル電子ボリューム

High performance multi-channel electronic volume corresponding to multi-channelization of the audio source by Dolby, DTS, etc.



■ 特長
● ±10Vの広ダイナミックレンジ
● クリック音のない高性能ボリューム
● 多数の回路を接続できるマルチセレクタ
● マイコンによるバス制御
■ Features
● The wide dynamic range by ± 10 V supply
● Highly performance electronic volume without click sound
● The multi-input selector which can connect many sets
● Bus control by MCU

ASP for AV Amp/DVD Receiver

Function	Type No.	Package	Power Supply	MCU/F	Data Page	Input Selector	Trimmer/Fader	Master Volume	Loudness Control	Tone Control	ZeroCross Detector	Others
Electronic Volume	M62490FP	36pin SSOP	$\pm 6 \sim -9$ (Vcc) $\pm 4 \sim -6$ (Vcc)	2-Wire Serial	P20	2 Input	4ch Fader 0 \sim 72dB (2dB/step)	2ch 0 \sim 14dB (1dB/step)	—	—	—	—
	M62440AFP	42pin SSOP	$\pm 4.5 \sim +7.5$ $\pm 4.5 \sim +5.5$ (Vcc)	3-Wire Serial	—	—	—	6ch 0 \sim 14dB (1dB/step)	—	Base ± 14 dB Treble ± 12 dB (2dB/step)	—	4 Output Port
	M61531FP	90pin QFP	$\pm 4.5 \sim +7.5$ $\pm 4.5 \sim +5.5$ (Vcc)	3-Wire Serial	P25	10 Input	—	0 \sim 90dB (1dB/step)	Loudness	Base ± 16 dB Treble ± 10 dB (2dB/step)	—	Selectable Tone Block Position
	M61527FP	80pin QFP	$\pm 4.5 \sim +7.5$ $\pm 2.7 \sim +5.5$ (Vcc)	3-Wire Serial	P26	10 Input	—	0 \sim 90dB (1dB/step)	—	—	—	Gain Control
8ch Electronic Volume	M61538FP	24pin SSOP	$\pm 4.5 \sim +7.5$ $9 \sim 12$ (Vcc)	2-Wire Serial	P25	—	—	6ch 0 \sim 95dB (1dB/step)	—	—	—	—
	M61540FP	40pin QFP	$\pm 4.5 \sim +7.5$ $\pm 3.0 \sim +5.5$ (Vcc)	2-Wire Serial	P24	5 Input	—	0 \sim 90dB (1dB/step)	—	Base ± 14 dB Treble ± 14 dB (2dB/step)	—	Gain Control
	M61541FP	40pin QFP	$\pm 4.5 \sim +7.5$ $\pm 2.7 \sim +5.5$ (Vcc)	2-Wire Serial	P24	—	—	6ch 0 \sim 90dB (1dB/step)	—	Base ± 14 dB Treble ± 14 dB (2dB/step)	—	Gain Control
	M61526FP	56pin QFP	$\pm 4.5 \sim +7.5$ $\pm 2.7 \sim +5.5$ (Vcc)	2-Wire Serial	P23	5 Input	—	4 \sim 90 \sim 90dB (1dB/step)	—	—	—	Gain Control
8ch Electronic Volume	R2S1502FP	44pin QFP	$\pm 6 \sim -10$	2-Wire Serial	P23	4 Input	—	0 \sim 90dB (1dB/step)	—	Base ± 14 dB Treble ± 14 dB (2dB/step)	—	Gain Control
	M61516FP	80pin QFP	$\pm 4.5 \sim +7.5$ $\pm 4.5 \sim +5.5$ (Vcc)	3-Wire Serial	—	10 Input	—	0 \sim 95dB (1dB/step)	Loudness	Base ± 10 dB Treble ± 10 dB (2dB/step)	●	Switch for 7.1ch
	M61532FP	80pin QFP	$\pm 4.5 \sim +7.5$ (Vcc) $\pm 2.7 \sim +5.5$ (Vcc)	3-Wire Serial	P26	9 Input Twin	—	6ch 0 \sim 90dB (0.5dB/step)	—	—	—	Gain Control
	R2S15205FP	80pin QFP	$\pm 6.5 \sim +7.5$	2-Wire Serial	P22	11 Input Twin	—	4 \sim 90 \sim 90dB (1dB/step)	—	Base ± 14 dB Treble ± 14 dB (2dB/step)	—	3Rec Output Sub Output
	R2A15218FP**	100pin QFP	$\pm 6.5 \sim +7.5$	2-Wire Serial	P22	11 Input Twin	—	4 \sim 90 \sim 90dB (0.5dB/step)	—	Base ± 14 dB Treble ± 14 dB (2dB/step)	—	3Rec Output Sub Output

** Under Development

11入カセレクタ内蔵 8チャネル電子ボリューム

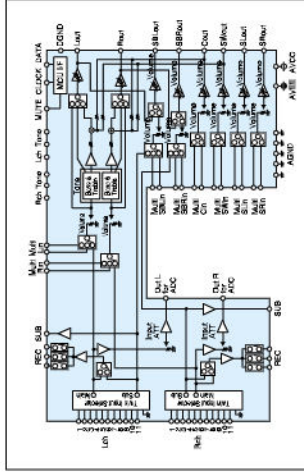
8-ch Electronic Volume With
11-Input Selector

R2A15218FP**

0.5dBステップの11入カセレクタ内蔵

8ch電子ボリューム

0.5dB stepped 8ch Electronic Volume with
11 Input selector



■ 特長

- 高性能独立8チャネルボリューム (+42 \sim -95dB/0.5dBステップ, ∞)
- ステレオ11入カセレクタ内蔵
(マルチルーム用のSUB出力対応シンセレクタ)
- ミックスコントロール: Cut, Swout, L/Rout, Mix
- 2バンドコントロール: Bass: -14dB \sim +14dB/2dBステップ
Treble: -14dB \sim +14dB/2dBステップ
- マルチチャネル入力 (8ch/2系統)
- 3ラインREC出力 (メイン, サブ選択可)

■ Features

- 8-ch high-performance independent electronic volume (+42 to -95dB/0.5dB step, ∞)
- Built-in 11-input stereo selector (Sub output support twin selector for multi-rooms)
- MIX Control: Cut mixed to L/Rout, Swout mixed to L/Rout
- 2-band tone control: Bass: -14dB to +14dB/2dB step
Treble: -14dB to +14dB/2dB step
- Multi-channel input (8-ch two systems)
- 3-line REC output (Main and Sub Selector)

■ 標準性能

- 入カアッテネータ (A/Dコンバータ用): 0/-6/-12/-18dB
- Vo max: 4.2Vrms (全周波数帯域=1%)
- 全周波数帯域: 0.001% (BW: 400Hz to 30kHz, $f_s=1$ kHz)
- Vo: 0.5Vrms, RL=10k Ω ● 出力雑音: 1.1 μ Vrms (ボリウム OdB/Rg=00dB/JIS-A) ● ノイズ: 100 μ n QFP
- 電源電圧範囲: AVCC=+6.5 \sim +7.5V, AVEE=6.5 \sim -7.5V

■ Characteristics

- Input ATT (for A/D converter): 0/-6/-12/-18 dB
- Vo max: 4.2Vrms (total harmonic distortion rate=1%)
- Total harmonic distortion rate: 0.001%
- (BW: 400 Hz to 30 kHz, $f_s=1$ kHz, Vo=0.5Vrms, RL=10k Ω)
- Output noise: 1.1 μ V (volume: 0dB/Rg=00dB/JIS-A)
- Package: 100-pin QFP
- Power-supply voltage range: AVCC=+6.5 to +7.5V, AVEE=-6.5 to -7.5V

** Under Development

8ch電子ボリューム

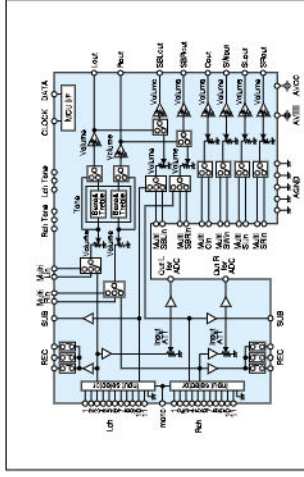
8ch Electronic Volume

R2S15205FP

11入カセレクタ、トーンコントロール内蔵

8ch電子ボリューム

8ch Electronic Volume with 11-Input selector
and Tone Control



■ 特長

- 高性能独立8チャネルボリューム (+16 \sim -95dB/1dBステップ, ∞)
- ステレオ11入カセレクタ内蔵
(マルチルーム用のSUB出力対応シンセレクタ)
- 2バンドコントロール: Bass: -14dB \sim +14dB/2dBステップ
Treble: -14dB \sim +14dB/2dBステップ
- マルチチャネル入力 (8ch/2系統) ● 3ラインREC出力

■ Features

- High performance 8 channel independent Electronic Volume (+16 \sim -95dB/1dB step, ∞)
- Built-in 11-input stereo selector and 1 mono Input Selector (Twin selector: Built-in SUB output for Multi room)
- 2 band tone control: Bass: -14dB \sim +14dB/2dB step
Treble: -14dB \sim +14dB/2dB step
- Multi channel input (8 channel/2 Line) ● 3 Rec output

■ 標準性能

- 入カアッテネータ (ADC用): 0/-6/-12/-18dB
- Vo max: 4.2Vrms (全周波数帯域=1%)
- 全周波数帯域: 0.001% (BW: 400Hz to 30kHz, $f_s=1$ kHz)
- Vo: 0.5Vrms, RL=10k Ω ● 出力雑音: 1.1 μ Vrms (ボリウム OdB/Rg=00dB/JIS-A) ● ノイズ: 80 μ n QFP
- 電源電圧範囲: AVCC=+6.5V to +7.5V AVEE=-6.5 to -7.5V

■ Characteristics

- Input Attenuator (for ADC): 0/-6/-12/-18dB
- Vo max: 4.2Vrms (THD=1%)
- Total Harmonic Distortion: 0.001%
- (BW: 400Hz to 30kHz, $f_s=1$ kHz, Vo=0.5Vrms, RL=10k Ω)
- Output Noise: 1.1 μ Vrms (Volume=0dB/Rg=00dB/JIS-A)
- Package: 80pin QFP
- Supply Voltage Range: AVCC=+6.5V to +7.5V AVEE=-6.5 to -7.5V