Echo Processor with Music Mix IC

Part No.	Package	Channel	Supply Voltage	RAM	THD+N	SNR
MS6300	MSOP10	1	4.5~5.5V	44K	-70dB	90dB

General Purpose Operational Amplifier

Part No.	Package	Channel	Supply Voltage	Output	SR	GBWP	Quiescent Current	Feature	Reference
MSV358	MSOP 8 SOP 8	2	2.4~6.5V	RRO	1V/us	1MHz	170uA@2.7V	Voice band	TI LMV358 NS LMV358
MS2100	SOP 8	2	2.7~6.5V	RRO	6V/us	12MHz	2.1mA@2.7V	Audio band	ROHM BA4510 JRC NJM2100
MSV932	MSOP 8 SOP 8	2	2.1~6.5V	RRIO	0.5V/us	1MHz	180uA@2.1V		NS LMV932 NS LMV922

Headphone Driver

Part No.	Package	Channel	Supply Voltage	Fixed Gain	Mute	THD+N	PSRR	Max Output Power	Feature	Reference
MS6308	SOP 8	2	2.8~6.5V	-	-	-75dB	70dB	124mW@5V	124mW@5V ESD 6000V	Philips TDA1308
MS6544	SOP 8 MSOP8	2	2.7~6.5V	6dB	v	-64dB	60dB	140mW@5V	Pop noise free	ROHM BH3544F

TP: Thermal pad

Audio Power Amplifier

Part No.	Package	Channel	Supply Voltage	Stereo HP	I_{SD} (5V)	HP THD+N	PSRR	Max Po	Feature	Reference
MS6853	MSOP10(TP)	1 Stereo 1 BTL	2.4~6.5V	v	18uA @5V	-73dB	BTL 73dB SE 64dB	1.9W@5V, R_L=4Ω 1.2W@5V, R_L=8Ω	HP sense Compact package Enhance TP	ADI SSM2250 NS LM4853 NS LM4858
MS6863	TSSOP20(TP)	1 Stereo 2 BTL	2.4~6.5V	v	0.4uA @5V	-75dB	BTL 63dB SE 55dB	2W@5V, R_L=4Ω 1.2W@5V, R_L=8Ω	Pop noise free control (extra function for Pin7) Enhance TP	NS LM4863

TP: Thermal pad HP: Stereo Headphone

Audio DAC

Part No.	Package	Channel	Supply Voltage	Audio Format	Input Level	Output Voltage	THD+N	PSRR	Feature	Reference
MS6610	SOP8	2	2.7~6.5V	Right justified	TTL	1.0mA@5V	-85dB	60dB	Current output	Philips TDA1545
MS6309	SOP8	2	2.7~6.5V	I2S	TTL	$0.5V_{DD}$	-60dB	-	Low cost	
MS6310	SOP8	2	2.7~6.5V	Right justified	TTL	$0.5V_{DD}$	-60dB	-	Low cost	Philips TDA1311
MS6313	SOP8	2	2.7~6.5V	Right justified	TTL	$0.4V_{DD}$	-68dB	65dB	Excellent PSRR	Philips TDA1311
MS6324	MSOP8 SOP8 DFN8	2	2.5~6.5V	I2S	TTL	$0.5V_{DD}$	-68dB	65dB	Control inputs can be 1.8V@ 5V	
MS6326	MSOP8 SOP8 DFN8	2	2.5~6.5V	Right justified	TTL	$0.5V_{DD}$	-68dB	65dB	Control inputs can be 1.8V@ 5V	Philips TDA1311

Audio DAC with Headphone driver

Part No.	Package	Channel	Supply Voltage	Audio Format	Input Level	Output Voltage	Volume Control	Control Interface	THD+N	PSRR	PD Current	Feature
MS6331	SOP8	2	2.5~6.5V	Right justified	TTL	$0.568 * V_{DD}$	-	-	-60dB	66dB	-	Component less
MS6333	SSOP 16 QFN 16	2	2.5~6.5V	Right justified	TTL	$0.023663 * R_F * V_{DD}$	-	-	-65dB	72dB	12uA	Excellent PSRR TTL input level

Audio DAC with HP and Volume Control

Part No.	Package	Channel	Supply Voltage	Audio Format	Input Level	Output Voltage	Volume Control	Control Interface	THD+N	PSRR	PD Current	Feature
MS6335	SSOP 16 QFN16	2	2.7~6.5V	Right justified I^2S	CMOS	$0.02 * R_F * V_{DD}$	6~-39dB	I^2C (CMOS)	-65dB	72dB	11uA	Flexibility Power Management

Audio DAC with Power Amplifier

Part No.	Package	Channel	Supply Voltage	Audio Format	Input Level	Output Voltage	Control Interface	THD+N	PSRR	PD Current	Max Output Power
MS6336	TSSOP16(TP)	1 HP 2 SPK	2.4~6.5V	RJF LJF I^2S	TTL	$0.72 * V_{DD}$	I^2C (TTL)	-65dB	65dB	0.3uA	1.6W@5V, R_L=4Ω
MS6337	SSOP 24 QFN24	1 HP 2 SPK	2.7~6.5V	RJF I^2S	1.6V@5V	$0.01578 * R_F * V_{DD}$	-	-65dB	61dB	17uA	1.8W@5V, R_L=4Ω

RJF: Right Justified Format LJF: Left Justified Format

Volume Controller

Part No.	Package	Input Channel	Output Channel	Supply Voltage	Mute	Control Interface	Gain	Volume	THD+N	PSRR	Feature
MS6257	SOP8	1 Stereo	1 Stereo	2.7~6.5V	v	I^2C (CMOS)	0~15dB	-79~0dB	-68dB	-	-
MS6258	SSOP16	4 Stereo	1 Stereo	2.7~6.5V	v	I^2C (CMOS)	0~15dB	-79~0dB	-69dB	53dB	Excellent PSRR Pop noise free
MS6260	MSOP10	1 Stereo	1 Stereo	2.7~6.5V	v	I^2C (CMOS)	0~15dB	-79~0dB	-69dB	53dB	Compact package Pop noise free
MS6266	SSOP20	6	6	2.7~6.5V	v	I^2C (CMOS)	0~16dB	-79~0dB	-69dB	53dB	Pop noise free
MS6272	MSOP10	1 Stereo	1 Stereo	2.5~6.5V	v	I^2C (TTL)	0~15dB	-79~+15dB	-75dB	55dB	Excellent PSRR Soft-step volume differential Input
MS6274	SSOP16	4 Stereo	1 Stereo	2.5~6.5V	v	I^2C (TTL)	0~15dB	-79~+15dB	-75dB	55dB	Excellent PSRR Soft-step volume differential Input

Volume Controller with Headphone

Part No.	Package	Input Channel	Output Channel	Supply Voltage	Mute	Control Interface	Gain	Volume	THD+N	PSRR	Feature
MS6282	MSOP10	1 Stereo	1 Stereo	2.5~6.5V	v	I^2C (TTL)	0~15dB	-79~+15dB	-65dB	55dB	Excellent PSRR Soft-step volume
MS6283	SSOP16	3 Stereo	1 Stereo	2.5~6.5V	v	I^2C (TTL)	0~15dB	-79~+15dB	-65dB	55dB	Excellent PSRR Soft-step volume differential Input

Volume Controller with Power Amplifier

Part No.	Package	Input Channel	Output Channel	Supply Voltage	Mute	Control Interface	Gain Attenuation	THD+N	PSRR	PD Current	Max Output Power
MS6864	TSSOP16(TP)	1 Stereo	1 Stereo 2 BTL	2.4~6.5V	v	I^2C (TTL)	-77.5~+21dB	-65dB	BTL 61dB SE 64dB	0.3uA	RL=4Ω, 2W at 5V
MS6865	TSSOP20(TP)	3 Stereo	1 Stereo 2 BTL	2.4~6.5V	v	I^2C (TTL)	-77.5~+21dB	-65dB	BTL 61dB SE 64dB	0.3uA	RL=4Ω, 2W at 5V

Audio Processor

Part No.	Package	Input Channel	Output Channel	Supply Voltage	Gain	Volume	Output Attenuation	Treble Bass	Loudness	Mute	Control Interface	THD+N
MS6712	SOP32	4 Stereo	4	2.7~6.5V	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	v	I^2C (TTL)	-75dB
MS6713	SSOP28	3 Stereo	4	2.7~6.5V	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	v	I^2C (TTL)	-75dB
MS6714	SSOP28	4 Stereo	2	2.7~6.5V	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	v	I^2C (TTL)	-75dB
MS6715	SSOP20	1 Stereo	2	2.7~6.5V	-	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	v	I^2C (TTL)	-75dB
MS6720	SSOP20	3 Stereo	4	2.7~6.5V	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-	-	v	I^2C (TTL)	-75dB
MS6741	SSOP36	4 Stereo	4	3.3~5V	0~15dB	-79~15dB	-79~15dB Mute	-15~+15dB	v	v	I^2C (TTL)	-85dB
MS6742	SSOP28	4 Stereo	2	3.3~5V	0~15dB	-79~15dB	-79~15dB Mute	-15~+15dB	v	v	I^2C (TTL)	-85dB

Audio Processor(Low Cost)

Part No.	Package	Input Channe	Output Channel	Supply Voltage	Control Interface	Gain	Volume	Output Attenuation	Treble Bass	Loudness	THD+N	Reference
MS6712L	SOP32	4 Stereo	4	2.7~6.5V	I^2C (TTL)	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	-65dB	MS6712
MS6713L	SSOP28	3 Stereo	4	2.7~6.5V	I^2C (TTL)	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	-65dB	MS6713
MS6714L	SSOP28	4 Stereo	2	2.7~6.5V	I^2C (TTL)	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	-65dB	MS6714
MS6715L	SSOP20	1 Stereo	2	2.7~6.5V	I^2C (TTL)	-	-78.5~0dB	-37.5~0dB Mute	-14~+14dB	v	-65dB	MS6715
MS6720L	SSOP20	3 Stereo	4	2.7~6.5V	I^2C (TTL)	0~11.25dB	-78.5~0dB	-37.5~0dB Mute	-	-	-65dB	MS6720

Audio Combo

Part No.	Package	Input Channel	Output Channel	Supply Voltage	Audio Format	Control Interface	Gain Attenuation	THD+N	PSRR	PD Current	Max Output Power
MS6821	TSSOP28(TP)	4 Stereo DAC	1 Stereo 2 BTL	2.4~6.5V	RJF LJF I^2S	I^2C (TTL)	21~-77.5dB	-65dB	BTL 61dB SE 65dB	0.3uA	2W at 5V, RL=4Ω,

RJF: Right Justified Format LJF: Left Justified Format

DTMF

Part No.	Package	Input Channel	Supply Voltage	Input Level	Standby Current
MS8870	SOP18(300mils) SSOP20(209mils)	1	4.5~5.5V	CMOS	10uA