

CAR AUDIO

List of standard products of hybrid IC for car audio set

TUNNER

New product	Model	Page	Outline dimensions (mm)			Circuit function and application		Main IC used and their specification and features	
			Shape	Dimension	Pitch				
	IF4S210		ZIL	22.5×7.5×4.5	1.50	FM-IF AMPLIFIER		LA1140	
	NC3S300		SIL	25.0×8.0×4.0	2.00	FM-NOISE CANCELLER		LA2110	Chip & Wire, small size
	KC820A		SIL	27.0×8.0×4.0	2.00			LA2110	Chip & Wire, gate pulse wavewidth adjustment
	NC8712	11	SIL	33.5×13.5×7.5	2.54	AM-NOISE CANCELLER		HA12429	
	BF3S700		SIL	13.5×8.0×4.0	2.00	AM BEAT FILTER			9kHz beat cut
	MX3S400		SIL	27.5×8.0×4.5	2.00	FM-MULTIPLEX DECODER		LA3376	Chip & Wire, HCC, SNC functional terminals attached
	NMX3S900	13	SIL	43.5×8.5×4.0	2.00	FM-NOISE CANCELLER		LA2110+LA3430	European de-emphasis specified
	NMX3S920		SIL	43.5×8.5×4.0	2.00	+MULTIPLEX DECODER		LA2110+LA3430	U.S. de-emphasis specified
	NMX3S960		SIL	34.5×9.0×4.5	1.80			AN7465	
	NMX4S930	15	ZIL	34.5×6.0×6.0	1.50			LA2110+LA3430	U.S. specified, ZIL type, small size
	NMX4S931		ZIL	34.5×6.0×6.0	1.50			LA2110+LA3430	Europe specified, ZIL type, small size
○	895709		DIL	30.0×28.0×8.0	1.80	FM-IF AMPLIFIER		TA8172AF	
○	902250		SMD-D	19.4×20.4×7.0	1.00	+NOISE CANCELLER		TA8172AF	
○	895636		SIL	41.5×9.5×7.0	2.00	+MULTIPLEX DECODER		μPC1348	
○	895683Z		DIL	23.5×17.5×8.0	1.80			μPC1348	
○	911646		ZIL	36.5×10.3×6.0	1.50			AN7291	
○	911314		SMD-D	27.0×16.6×7.5	1.27			AN7291	
○	901510		SIL	32.5×15.5×7.0	2.00	ANTENNA SWITCHING		LA1061M	
○	911633		SMD-S	29.4×10.5×5.6	1.27	CONTROLLE		LA1061M	

AF PREAMPLIFIER

New product	Model	Page	Outline dimensions (mm)			Circuit function and application		Main IC used and their specification and features	
			Shape	Dimension	Pitch				
	KC-819	17	SIL	33.5×8.0×4.0	2.00	TONE CONTROL			2CH×11, small size
	EA1035	19	SIL	59.0×9.9×7.0	2.50	GEQ (GRAPHIC	5BAND 2CH		f=60, 250, 1k, 3.5k, 10k
	EA1067	21	SIL	71.0×14.5×5.0	2.50	EQUALIZER)	7BAND 2CH		f=60, 125, 250, 500, 1k, 3k, 10k
	EA1019	23	SIL	55.5×15.0×5.5	2.50		9BAND 1CH		f=60, 125, 250, 500, 1k, 2k, 4k, 8k, 16k
○	901404		SIL	34.5×10.5×5.5	1.80		9BAND 1CH		
○	901485		ZIL	50.5×12.0×6.5	1.50		9BAND 2CH		
○	901045		ZIL	55.5×12.5×6.5	1.50		11BAND 2CH		
○	901406		ZIL	66.0×12.5×6.5	1.50		14BAND 2CH		
○	EAS1075		SMD-D	18.0×14.5×6.0	1.27		5BAND 2CH		
	EAS1077	25	SMD-D	27.0×13.7×6.3	1.27		7BAND 2CH		SMD type of EA1067
	EA2007	27	SIL	49.5×14.0×7.0	2.00	ELECTRONIC CONT.	7BAND 2CH	TC9187	Potentiometer at 13 positions, 7CH graphic equalizer

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ACCESSORIES

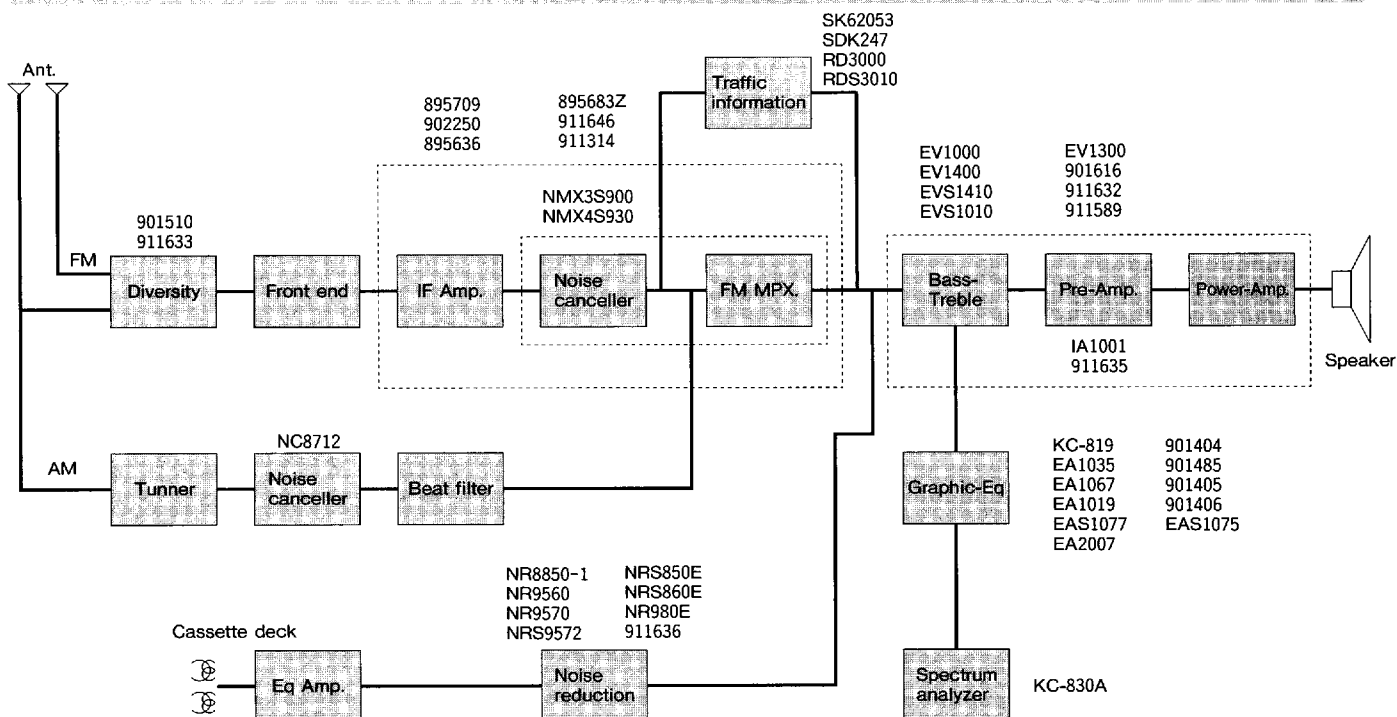
New product	Model	Page	Outline dimensions (mm)			Circuit function and application	Main IC used and their specification and features	
			Shape	Dimension	Pitch			
	SK62053	29	SIL	35.5×9.0×5.5	2.00	ARI (AUTOFAHRER RUND-FUNK INFORMATION)	LA2220	Chip & Wire, free run frequency no adjustment
	SDK247	31	SIL	25.5×16.0×8.0	2.00		TDA1579T	
○	RD3000		SIL	34.0×14.0×8.0	1.80	RDS (RADIO DATA SYSTEM)	LA2230, LC7073	
○	RDS3010		SMD-D	27.0×16.5×7.3	1.27		LA2230, LC7073	
	IA1001	33	SIL	19.5×8.0×5.0	1.80	GRAND ISOLATOR AMPLIFIER		CMRR:60dB, 2CH small size
○	911635		SMD-S	20.4×8.0×5.6	1.27			
	EV1000	35	SIL	39.5×18.5×6.5	2.00	ELECTRONIC VOLUME CONTROL	LC7537	Highly integrated
	EV1400	37	SIL	39.5×15.0×7.0	2.00		LC7537	Low height form
	EVS1410	39	SMD-D	22.0×23.2×6.3	1.27		LC7537	SMD type of EV1400
	EVS1010	41	SMD-D	20.0×17.0×6.0	1.27		LC7537	Super small size, SMD type
	EV1300	43	SIL	43.5×18.0×7.0	2.00		TC9222	Chip & Wire, small size
○	901616		DIL	28.0×32.0×7.0	2.54		TC9233	
○	911632		SMD-D	23.0×31.0×7.0	1.27		TC9233	
○	911589		SMD-D	18.0×20.0×6.0	1.27		LC7537	
	KC-830A	45	SIL	45.0×20.0×6.5	2.50			
						SPECTRUM ANALYZER		

TAPE

New product	Model	Page	Outline dimensions (mm)			Circuit function and application	Main IC used and their specification and features	
			Shape	Dimension	Pitch			
	NR8850-1	47	SIL	33.5×15.0×5.5	2.50	DOLBY B TYPE NR.	HA12134	For replay only, small size
	NR9560	49	DIL	23.0×19.0×7.0	1.80	DOLBY B/C TYPE NR.	CXA1332M	For replay only, small size
	NR9570	51	DIL	23.0×19.0×7.0	1.80		HA1215MP	For replay only, small size
	NRS9572	53	SMD-D	18.0×14.4×6.5	1.27		HA1215MP	SMD type
○	NRS850E		SMD-S	37.0×12.5×6.5	1.27	EQUALIZER AMPLIFIER	M51524, HA12136	
○	NRS860E		SMD-S	36.0×11.0×6.5	1.27	+DOLBY B TYPE NR.	BA3430, HA12134	
○	NR980E		SIL	32.5×15.0×7.0	1.80	EQUALIZER AMPLIFIER	TA7705, CXA1332	
○	911636		SMD-D	19.4×17.0×7.0	1.27	+DOLBY B/C TYPE NR.	TA7705, HA12161	

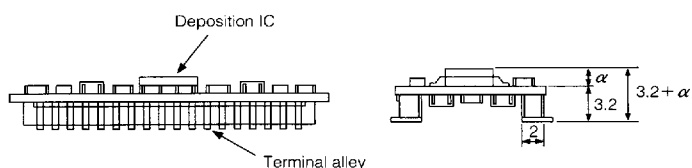
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BLOCK DIAGRAM OF HYBRID IC FOR CAR AUDIO SET

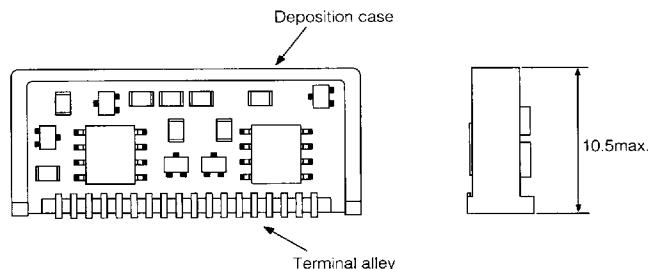


DIMENSIONAL PLAN OF SMD APPLIED PACKAGE FOR CAR AUDIO SET

Dual type (SMD-D)



Single type (SMD-S)



Unit : mm

Height(mm)	Pitch(mm)	Number of pins
$3.2 + \alpha$	1.27	11, 18, 22, 29
	1.00	14, 28

α : Thickness of IC