



LSI/ICs FOR AUDIO EQUIPMENT

Model No.	Description	Main function	Supply voltage (V)	Package
IR3R42	FM demodulator IC	FM demodulation (POLAR), forced monaural, VCO stop function, stereo indicator	4.0 to 7.5	16DIP
IR3R54N	Audio amp IC	Built-in serial control input ATT and mike amp	±2.0	24SSOP
IR3R55M	RF amp IC	Built-in RF amplifier, ADIP detection circuit, connectable to hologram pick up	2.4 to 5.5	48TQFP
IR3M09N	IC for power supply	PWM DC/DC converter, fosc = 1.2 MHz	2.2 to 6.5	12SSOP

ICs FOR TELECOMMUNICATIONS

<Tone decoder>

Model No.	Process	Main function	Supply voltage (V)	Operating current (mA) TYP.	Center frequency	Package
IR3N05/N	Bi-polar	Center frequency is determined by external resistors. Frequency range: 20: 1, Output current drive capacity: 100mA	4.75 to 9	12	0.01 Hz to 500 kHz	8DIP/8SOP

<Companders>

Model No.	Process	Main function	Supply voltage (V)	Operating current (mA) TYP.	Center frequency	Package
IR3N74/N	Bi-polar	Compression and expansion of speech signal, with data signal input pin	2.4 to 10	3.4	900	16DIP/16SOP
IR3N74AN		Compression and expansion of speech signal, small package	2.4 to 5.5	3.4	900	12SSOP
IR3N78A		Compression and expansion of speech signal, built-in splatter filter function	1.9 to 5.5	4.5	520	24SSOP

VOICE RECORDING/PLAYBACK ICs

Model No.	Process	Synthesis method	External memory	Capacity	Bit-rate (k bps)	Supply voltage (V)	Evaluation board	Control system	Remarks	Package
LR3990	CMOS	Variable length code ADPCM	DRAM	4 M-bit (MAX.)	18 to 26	5	LR0F140	CPU controlled	Data compression during mute, memory management function of voice data	64QFP
LR39902							Switch controlled	With excellent tone quality adopted, switch control type of LR3990, stand alone type		
LR39901A					32 to 36			LR0F160	With excellent tone quality adopted, repeat play function	

SINGLE CHIP LSIs FOR FACSIMILES

Model No.	Description	Function	Supply voltage (V)	- Power consumption (mW) TYP.	Package
LR490901	Single-chip facsimile MODEM	GII/GIII, voice recording/playback function	5	60	80QFP*
LR490911	Single-chip facsimile MODEM	GIII, voice recording/playback function	5	60	
LR490902	Single-chip facsimile MODEM	GIII, high-compression voice recording/playback function, tone/pulse dialer control function	5	60	

* 0.5 mm pin-pitch

ICs FOR INFRARED REMOTE CONTROL

Model No.	Description	Function	Supply voltage (V)	Package
IR3T24/N	Infrared signal receiver pre-amp IC	Photo diode directly connectable Output pulse : active "Low"	5	9SIP/8SOP
SM3903	Microcomputer for remote control transmitter	Built-in carrier output circuit for remote control and 132-segment LCD drive circuit	2.6 to 3.2	60QFP
SM3905	Microcomputer for remote control transmitter	Built-in carrier output circuit for remote control and 128-segment LCD drive circuit	2.4 to 3.6	64QFP
SM565	Microcomputer for remote control transmitter	Built-in carrier output circuit for remote control and 256-segment LCD drive circuit	2.4 to 5.5	100QFP