TOSHIBA TC9309AF-119

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC9309AF-119

SINGLE CHIP DIGITAL TUNING SYSTEM FOR CD RADIO CASSETTE

TC9309AF-119 is a CMOS LSI designed for a PLL frequency synthesizer radio system corresponded to the requirement of the whole world.

Since TC9309AF-119 can be used for TC9236AF or TC9284AF, TC9284BF the CD processor and receive remote control signal, a low cost compact CD radio system can be constructed.

FEATURES

Receiving frequency band

AREA	CODE			BAND	RECEIVING	STEP [Hz]	REFERENCE	INTERMEDIATE
	A2	Α1	A0	BAND	FREQUENCY [Hz]	ובר [חב]	FREQUENCY [Hz]	FREQUENCY [Hz]
EUROPE (*)	0	0	0	FM	87.50~108.00M	50k	50k	+ 10.70M
	0	0	1	MW	522~ 1620k	9k	9k	+ 450k
				LW	150~ 285k	1k	1k	
USA (1)	0	1	0	FM	87.5~ 107.9M	200k	50k	+ 10.7M
				MW	520~ 1710k	10k	10k	+ 450k
USA (2)	0	1	1	FM	87.5~ 108.0M	100k	50k	+ 10.7M
				MW	520~ 1710k	10k	10k	+ 450k
LATIN	1	0	0	FM	87.5~ 108.0M	100k	50k	+ 10.7M
AMERICA	'			MW	520~ 1620k	5k	5k	+ 450k
AUSTRALIA		0	1	FM	87.5~ 108.0M	100k	50k	+ 10.7M
MIDDLE AND NEAR EAST	1			MW	531~ 1602k	9k	9k	+ 450k
SOUTH	1	1	1	FM	87.50~108.00M	50k	50k	– 10.7M
AFRICA				MW	531~ 1602k	9k	9k	+ 450k

(*) CODE 001 : LW DISABLE

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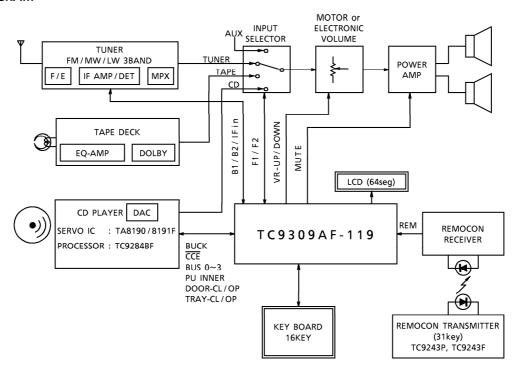
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- O Tuning functions and preset memory
 - manual up/down tuning
 - seek up/down tuning
 - scan up tuning
 - IF count (FM = 10.7MHz, AM = 450kHz)
 - FM: 10 stations, MW: 10 stations, LW: 5 stations
- Clock functions
 - 12H / 24H clock
- O CD functions
 - random play
 - intro play
 - repeat play or track repeat play
 - memory play (max 20 preset)
 - CD FF/REW
 - synchro rec mode
 - tray open/close control
 - indication of CD remain time
 - CD-G operation
- O Remote control functions
 - mute ON/OFF
 - volume up/down
 - direct selecting of preset memory and track number
- Other functions
 - function change (CD/TUNER/TAPE/AUX)
 - indication of STEREO mark
 - power on / off key

BLOCK DIAGRAM



LAYOUT

