

TOSHIBA CMOS DIGITAL INTEGRATED 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 TC9284BF the CD processor and receive remote control signal, a low cost compact CD radio system can be constructed.

FEATURES

- Receiving band and preset memory

AREA	CODE			BAND	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]	NOTE
	A2	A1	A0						
EUROPE	0	0	0	FM	87.50~108.00M	50k	50k	+10.70M	(*) Except the case that A ₀ , A ₁ , A ₂ = 000, B ₂ INPORT must fixed to "L"
				MW	522~1620k	9k	9k	+450k	
				LW	150~285k	1k	1k		
	0	0	1	FM	87.50~108.00M	50k	50k	+10.70M	
				AM	522~1620k	9k	9k	+450k	
USA1	0	1	0	FM	87.5~107.9M	200k	50k	+10.7M	
				AM	520~1710k	10k	10k	+450k	
USA2	0	1	1	FM	87.5~108.0M	100k	50k	+10.7M	
				AM	520~1710k	10k	10k	+450k	
LATIN AMERICA	1	0	0	FM	87.5~108.0M	100k	50k	+10.7M	
				AM	520~1620k	5k	5k	+450k	
AUSTRALIA MIDDLE AND NEAR EAST	1	0	1	FM	87.5~108.0M	100k	50k	+10.7M	
				AM	531~1602k	9k	9k	+450k	
SOUTH AFRICA	1	1	1	FM	87.50~108.00M	50k	50k	-10.7M	
				AM	531~1602k	9k	9k	+450k	

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○ Outline of functions

- Tuning functions and preset memory
 - manual up/down tuning
 - seek up/down tuning
 - scan up tuning
 - IF count (FM = $\pm 10.7\text{MHz}$, MW (AM) = 450kHz)
 - FM : 10 stations, MW (AM) : 10 stations, LW : 5 stations
- Clock functions
 - 12H/24H clock
- CD functions
 - random play
 - intro play
 - repeat play or track repeat play
 - memory play (max 20 preset)
 - CD FF/REW
 - synchronous recording mode
 - tray open/close control
 - indication of CD remain time
 - CD graphic
- 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
 - mute indicator

BLOCK DIAGRAM



