TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC9314F-017

SINGLE CHIP DIGITAL TUNING SYSTEM FOR CD RADIO CASSETTE

TC9314F-017 is a CMOS LSI designed for a PLL frequency synthesizer radio system corresponded to the requirement of the whole world.

Since TC9314F-017 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

AREA CODE SW1/A1SW0			BAND	STEP	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]	NOTE
	5W1/A1	200 / A0		FMMW			[HZ]		
U.S.A.	0	0	FM	0	87.5~ 107.9M	200k	25k	+ 10.7M	
				1	87.5~ 108.0M	100k			
			AM	0	530~ 1710k	10k	5k	+ 450k	
				1	531~ 1602k	9k	3k		
General	0	1	FM	0	87.50~108.00M	50k	25k	+ 10.7M	
				1	87.5~ 108.0M	100k			
			MW	0	531~ 1602k	9k	3k	+ 450k	
				1	530~ 1610k	10k	5k		
					146~ 281k	1k	1k		
East Europe	1	0	FM	0	65.00~ 74.0M	50k	- 25k	+ 10.7M	
				'	87.50~108.00M				
				1	65.00~ 74.0M	50k			
					87.50~108.00M	100k			
			MW	0	531~ 1602k	9k	3k		
				1	530~ 1610k	10k	5k	+ 450k	
					146~ 281k	1k	1k		

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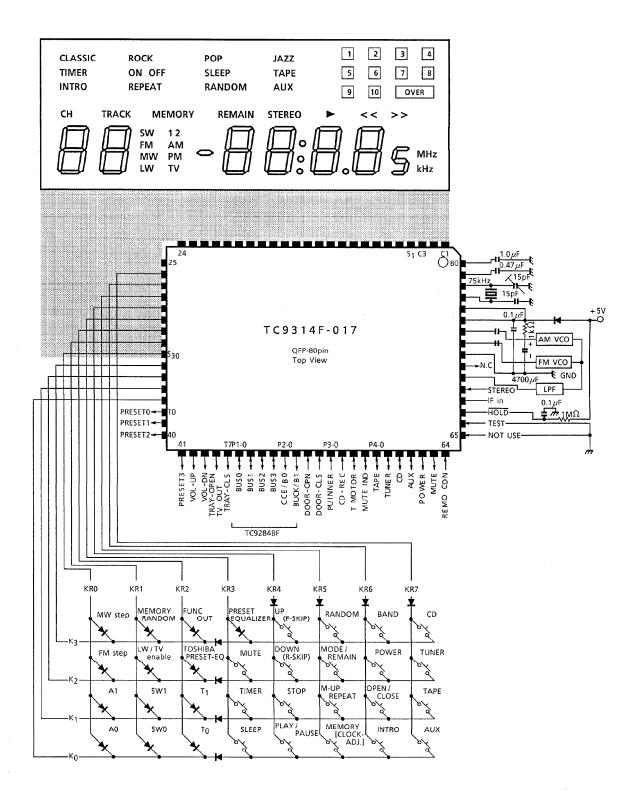
AREA		DE SW ₀ / A ₀	BAND	STEP FMMW	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]	NOTE
JAPAN	1	(*)	FM	_	76.0~ 90.0M	100k	25k	– 10.7M	
		1	MW	_	522~ 1629k	9k	3k	+ 450k	
		(**)	TV		1~ 12ch	1ch	25k	– 10.7M	TD7104P
	0	0	no SW						
sw	0	1	SWA		3.8~12.5MHz				
	1	0	SWB		5.95~15.6MHz	5k	5k	+ 450k	
	1	1 1	SW ₁		2.3~ 7.3MHz	JK	JK.	+ 450K	
			SW ₂		9.5~26.1MHz				

- (*) In case of there is not TV band, FM band extends (76.0 90.0MHz + TV 1-3ch).
- (**) If TV band is selected, prescaler (TD7104P) is needed.
- O Tuning functions and preset memory
 - manual up/down tuning
 - seek up/down tuning
- O Preset memory

•	Fixed	FM / MW	20 / 20	stations
		FM/MW/LW or TV	20 / 10 / 10	stations
		FM/MW/SW-A or B	20 / 10 / 10	stations
		FM/MW/LW or TV/SW-A or B	20/10/5/5	stations
		$FM/MW/SW_1/SW_2$	20/10/5/5	stations
•	Random	total	30	stations

- O Clock functions
 - 12H / 24H clock
 - Timer ON/OFF
 - Sleep
- O CD functions
 - random play
 - intro play
 - repeat play or track repeat play
 - memory play (max 20 preset)
 - CD FF/REW
 - synchronous rec mode
 - tray open/close control
 - indication of CD remain time
 - music calendar

- O Remote control functions
 - volume up/down
 - direct selecting of preset memory and track number
- Other functions
 - preset equalizer control
 - function change (CD/TUNER/TAPE/AUX)
 - indication of STEREO mark
 - power ON/OFF key
 - mute ON/OFF



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