

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		BAND	STEP	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]	NOTE
	SW ₁ / A ₁	SW ₀ / A ₀		FMMW					
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		
			LW	— —	146 ~ 281k	1k	1k		
			East Europe	1	0	FM	0	65.00 ~ 74.0M 87.50 ~ 108.00M	
1	65.00 ~ 74.0M 87.50 ~ 108.00M	50k 100k							
MW	0	531 ~ 1602k				9k	3k	+ 450k	
	1	530 ~ 1610k				10k	5k		
LW	— —	146 ~ 281k				1k	1k		

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

Tuning functions and preset memory

- manual up/down tuning
- seek up/down tuning

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

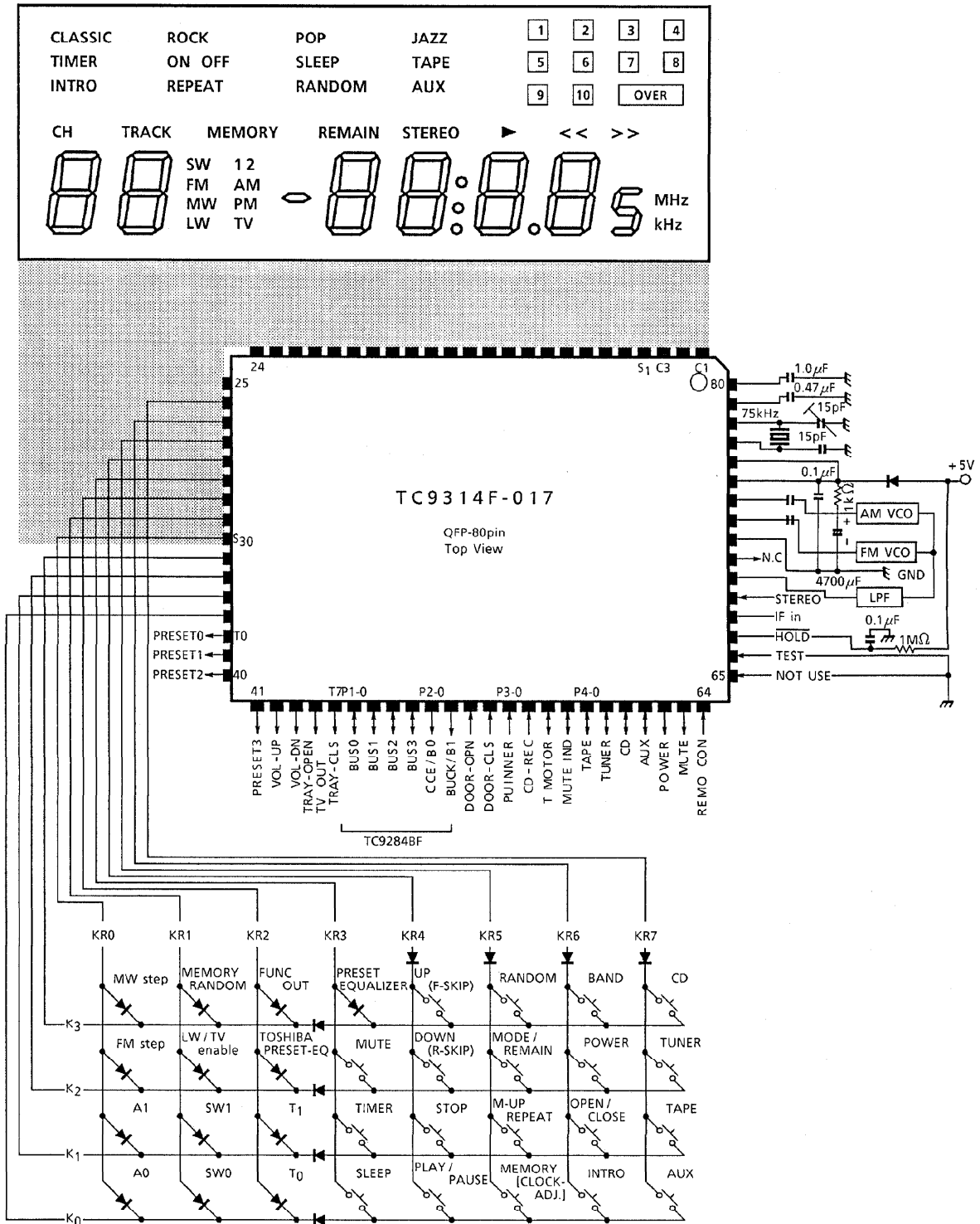
Clock functions

- 12H / 24H clock
- Timer ON / OFF
- Sleep

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

- 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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