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TC9314F-043

TOSHIBA CMOS Digital Integrated Circuit Silicon Monolithic

TC9314F-043

Single Chip Digital Tuning System for CD Radio Cassette

TC9314F-043 is a CMOS LSI designed for a PLL frequency synthesizer radio system corresponded to the requirement of the whole world.

Since TC9314F-043 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

112 2	Jumper Setting					Step	FREF		
Area	A1	A0	FM Step MW Step	Band	Frequency Rang (Hz)	(Hz)	(Hz)	IF	309
USA	0	0	0	FM	87.5~107.9 M	200 k	25 k	+10.7 M	C.CON
			1		87.5~108.0 M	100 k			
			0	AM (Note 1)	5 <mark>30~1710 k</mark>	10 k	5 k	+450 k	
			1		531~1602 k	9 k	3 k	+430 K	
General	0	1	0	FM	87.50~108.00 M	50 k	- 25 k	+10.7 M	1
			WW W1.023		87.5~108.0 M	100 k			
			0	MW/AM	522~1602 k	9 k	3 k	+450 k	
			1		530~1602 k	10 k	5 k		1571
			—	LW	146~281 k	1 k	<mark>1 k</mark>		C.CO1
East Europe	1	0	0	FM	65.00~74.0 M 87.50~108.00 M	50 k	25 k	+10.7 M +450 k	C
			1		65.00~74.0 M 87.50~108.00 M	50 k			
						100 k			
			0	MW/AM	531~1602 k	9 k	3 k		
			1.073		530~1610 k	10 k	5 k		
				LW	146~281 k	1 k	1 k		
Japan	1	1	(Note 2)	FM	76.0~90.0 M	100 k	25 k	-10.7 M	रत्व
			—	MW/AM	522~1629 M	9 k	3 k	+450	C.CO1
			(Note 3)	ΤV	1~12 ch	1 ch	25 k	-10.7 M	

Note 1: AM mark is indicated, even if band is MW with SW band in USA area.

Note 2: In case that there is not TV band, FM band extends (76.0-90.0 MHz + TV 1~3 ch).

Note 3: If TV band is selected, prescaler (TD7104P) is need.



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There are SW bands with bands as shown above by setting of SW_0 , SW_1 Jumper.

	Jumper Setting				Frequency Rang	Step	FREF		
	SW1	SW0	FM Step	Band	(Hz)	(Hz)	(Hz)	IF	Note
			MW Step		(112)				
	0	0	_	no SW					
	0	1		SWA	3.8~12.5 M	- 5k	5 k	+450 k	
	1	0		SWB	5.95~15.6 M				
	1	1 1		SW1	2.3~7.3 M				
			_	SW ₂	9.5~26.1 M				

Note 4: Only SW mark is indicated for SWA or SWB.

Note 5: If jumper setting is SW1, SW2 when there is LW/TV band, SW1, SW2 bands are no set. (Maximum 4 band)

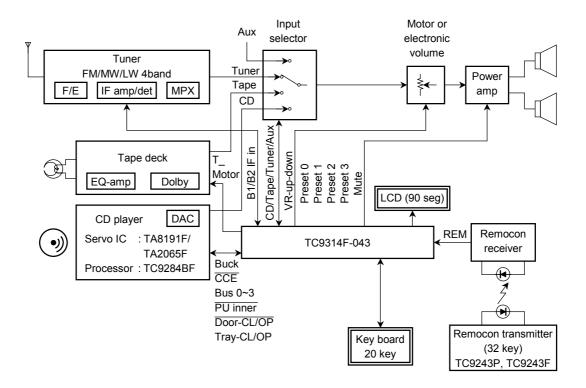
- Tuning functions and preset memory
 - manual up/down tuning
 - seek up/down tuning
- Preset memory
- Fixed

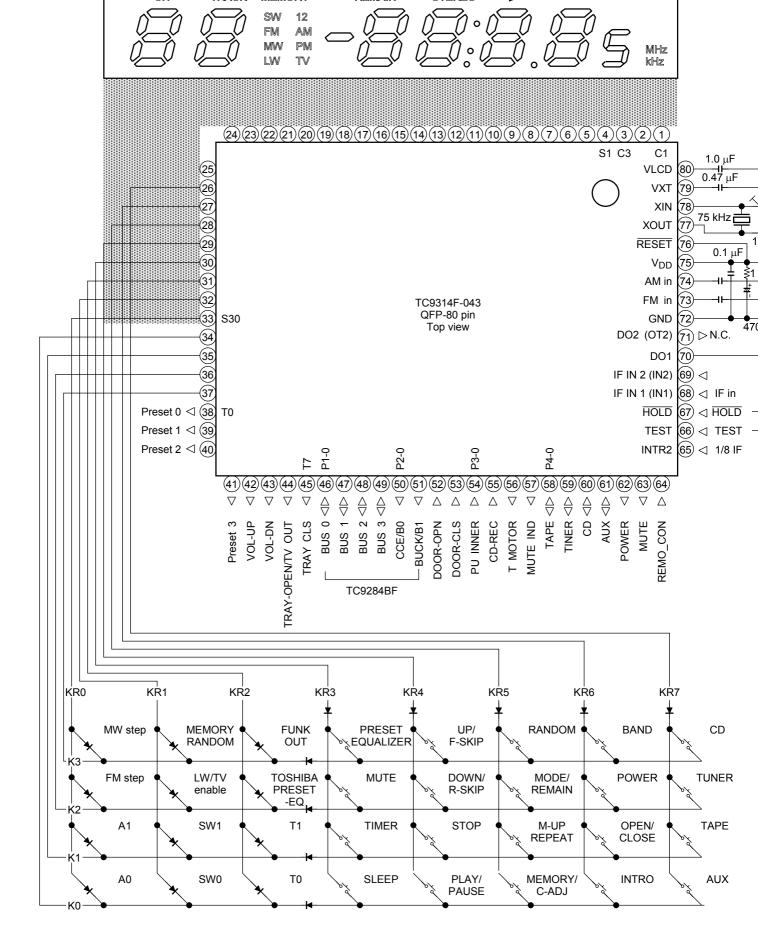
FM/AM	20/20	stations
FM/MW/LW or TV	20/10/10	stations
FM/MW/SW-A or B	20/10/10	stations
FM/MW/LW or TV/SW-A or B	20/10/5/5	stations
FM/MW/SW1/SW2	20/10/5/5	stations
total	30	stations

- Random 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
 - synchro rec mode
 - tray open/close control
 - indication of CD remain time
 - music calendar display
- Remote control functions
 - volume up / down control
 - 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 control

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Block Diagram





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