

Preliminary TOSHIBA CMOS Digital Integrated Circuit Silicon Monolithic

TC9318FB-001

Digital Tuning System

The TC9318FB-001 is a single-chip digital tuning system optimum for portable sets such as headphone radios, etc., 5-band of FM/MW/LW/TV/SW are provided compatibly with worldwide destinations.

Features

Receiving Band (direct jumper = 0)

AREA	CODE		BAND	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
	A1	A0					
USA (Note 1)	0	0	FM	87.5 ~ 108.0M	50 / 200k	25k	+ 10.7M
			MW	522 ~ 1620k	9k	3k	+ 450k
				520 ~ 1710k	10k	5k	
			TV	2 ~ 13ch	1ch	25k	+ 10.7M
General	0	1	FM	87.5 ~ 108.0M	50 / 100k	25k	+ 10.7M
			MW	522 ~ 1620k	9k	3k	+ 450k
				520 ~ 1620k	10k	5k	
			LW	144 ~ 281k	1k	1k	
Europe East / Europe (Note 2)	1	0	FM	65.0 ~ 74.0M	50k	25k	+ 10.7M
				87.5 ~ 108.0M	50k	25k	+ 10.7M
			MW	531 ~ 1611k	9k	3k	+ 450k
				530 ~ 1610k	10k	5k	
			LW	144 ~ 281k	1k	1k	
Japan (Note 3)	1	1	FM	76.0 ~ 108.0M	100k	25k	- 10.7M
				76.0 ~ 90.0M	100k	25k	- 10.7M
				76.0 ~ 3ch	100k	25k	- 10.7M
			MW	522 ~ 1629k	9k	3k	+ 450k
				520 ~ 1620k	10k	5k	
			TV	1 ~ 12ch	1ch	25k	- 10.7M
	SW1	SW0					
	0	1	SW	5.95 ~ 15.6M	5k	5k	450k
	1	0		3.8 ~ 12.5M			

Note 1: If step is 200 kHz, range is 87.5~108.1 MHz.

Note 2: The frequency range of FM in Europe area is according to FMstep jumper.

Note 3: The frequency range of FM in Japan area is according to FMstep and LW/TVenable jumper.

Receiving Band (direct jumper = 1)

BAND		RECEIVING BAND [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]		METER BAND	NOTE
					1'st	2'nd		
AM	LW	150 ~ 285k (Note 4)	1k	1k	10.7M / + 54.25M (Note 6)	+ 450k	—	DOUBLE / SINGLE CONV.
		150 ~ 528k (Note 4)						
	MW	531 ~ 1611k	9k	1k	+ 10.7M / + 54.25M	+ 450k	—	DOUBLE / SINGLE CONV.
		530 ~ 1610k	10k	1k				
	SW	1615 ~ 2245k	5k	1k	+ 10.7M / + 54.25M	+ 450k	—	DOUBLE / SINGLE CONV.
		2250 ~ 2550k					120M	
		3150 ~ 3450k					90M	
		3850 ~ 4050k					75M	
		4700 ~ 5100k					60M	
		5900 ~ 6250k					49M	
		7000 ~ 7400k					41M	
		9400 ~ 10000k					31M	
		11500 ~ 12150k					25M	
		13500 ~ 13900k					21M	
		15000 ~ 15700k					19M	
		17450 ~ 18000k					16M	
		21400 ~ 21950k					13M	
		25600 ~ 26100k					11M	
		26105 ~ 29995k					—	
FM		87.50 ~ 108.00M	50k (Note 5)	25k	+ 10.7M	—	—	—
		76.00 ~ 108.00M	100k (Note 5)	25k	− 10.7M	—		

Note 4: Setting saudi jumper.

Note 5: Setting FMstep jumper.

Note 6: Setting AM1stIF jumper.

Note 7: TV band is nothing.

LW/TVenable, A0, A1, SW0, SW1 jumper is disable.

Tuning Function

- Manual tuning (up/down)
(normal tuning or dial tuning)
- Direct tuning (direct jumper = 1)
- Seek tuning

Memory Function

- Direct jumper = 0
 - Fixed FM/MW/LW/TV/SW each band 10 stations
 - Last memory each band
- Direct jumper = 1
 - Random 18 stations
 - No last memory

Clock Function

- Dual clock function
- 12/24 H clock
- Sleep timer function
- Alarm timer function

Other Function

- Auto OFF function
- Battery check function



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