

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

# TC9307AF-009

## SINGLE CHIP DTS MICRO CONTROLLER (DTS-12)

The TC9307AF-009 is a digital tuning system optimum for such portable audio equipment as radio with a cassette tape recorder.

### FEATURES

○ Receiving band

AREA	CODE			STEP JUMPER	BAND	RECEIVING FREQ. [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
	E0	E1	E2						
M.N. East 1	0	0	0	0 / 1	FM	87.5~108.0M	50 / 100k	25k	+ 10.7M
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1710k	10k	5k	
				—	SW <sub>1</sub>	2.3~ 6.2M	5k	5k	
				—	SW <sub>2</sub>	7.1~21.85M			
M.N. East 2	1	0	0	0 / 1	FM	87.5~108.0M	50 / 100k	25k	
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1610k	10k	5k	
				—	SW <sub>1</sub>	2.3~ 6.2M	5k	5k	
				—	SW <sub>2</sub>	7.1~21.85M			
General SW-A	0	1	0	0 / 1	FM	87.5~108.0M	50 / 100k	25k	
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1610k	10k	5k	
				—	SW-A	5.95~ 15.6M	5k	5k	
				—	LW	146~ 281k	1k	1k	
Canada Australia	1	1	0	—	FM	87.5~108.0M	100k	25k	
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1610k	10k	5k	
USA	0	0	1	—	FM	87.5~108.0M	100k	25k	
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1710k	10k	5k	
General SW-B	1	0	1	0 / 1	FM	87.5~108.0M	50 / 100k	25k	
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1610k	10k	5k	
				—	SW-B	3.8~ 12.5M	5k	5k	
				—	LW	146~ 281k	1k	1k	

→ REFER 2 page

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AREA	CODE			STEP JUMPER	BAND	RECEIVING FREQ. [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
	E0	E1	E2						
Europe	0	1	1	0 / 1	FM	87.5~108.0M	50 / 100k	25k	+ 10.7M
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1610k	10k	5k	
				—	LW	146~ 281k	1k	1k	
East Europe	1	1	1	0 / 1	FM	65.0~ 74.0M 87.5~108.0M	50 / 100k	25k	+ 10.7M
				0	MW	531~ 1602k	9k	3k	+ 450k
				1		530~ 1710k	10k	5k	
				—	LW	146~ 281k	1k	1k	

○ Tuning function

- Manual Up/Down Tuning
- Auto up tuning (seek system) or semi-auto memory tuning is selectable.
- IF counter system auto stop function.
- Auto tuning in SW band is the scan system in the meter band.
- Memory scan tuning.
- Band changeover of method to which either of momentary or lock switch is selectable.

○ Memory function

M.N. East 1, M.N. East 2	FM (*) / MW / SW <sub>1</sub> / SW <sub>2</sub>	5 (*) / 5 / 5 / 5 station
General SW-A, General SW-B	FM / MW / LW / SW	10 / 5 / 5 / 5 station
USA, Canada, Australia	FM / MW	10 / 10 station
Europe, East Europe	FM / MW / LW	10 / 10 / 5 station

(\*) : Without Clock, Timer 10 station

○ Other function

- 12 / 24H Clock
- ON / OFF timer by time set system
- Sleep timer (max. 90min)



