

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

# TC9308AF-022

## DTS MICRO CONTROLLER (DTS-11)

The TC9308AF-022, in combination with the prescaler TD6134AF, is capable of composing a digital tuning system that is optimum to such portable equipment as pocket radio, headphone stereo and the like.

Receiving frequency bands are 3 bands of FM/AM/VHF TV for shipment the Japan and 2 bands of FM/AM for shipment to other areas than Japan.

### FEATURES

○ Receiving frequency bands

AREA	CODE		9k / 10k	BAND	RECEIVING FREQUENCY [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
	E0	E1						
Japan	0	0	—	TV	4~12ch	1ch	6.25k	- 10.7M
					1~ 3ch	1ch	12.5k	
				FM	76.0~ 90.0M	100k		
				MW	530~ 1610k	10k	5k	+ 450k
			0		522~ 1629k	9k	3k	
U.S.A	0	1	—	FM	87.5~ 108.0M	100k	12.5k	+ 10.7M
			0		530~ 1710k	10k	5k	+ 450k
			1	MW	531~ 1602k	9k	3k	
Europe 1	1	0	—	FM	87.50~108.00M	50k	12.5k	+ 10.7M
Europe 2	1	1	0		530~ 1610k	10k	5k	+ 450k
			1	MW	531~ 1602k	9k	3k	

In Europe area, Clock display is as shown below.

E0	E1	CLOCK DISPLAY
1	0	12 hour
1	1	24 hour

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## ○ Tuning function

- Manual up/down tuning : 1 step/1 push tuning
- Auto tuning (seek system) : Continuous pushing the key automatically shifts to Auto Mode.
- IF count type auto stop system in combination with the TA8132AF has been adopted.

## ○ Memory function

- Japan : FM/AM/TV each 5 stations
- Overseas : FM/AM random 10 stations
- Semi-auto memory function

## ○ Other functions

- Clock function      12-hour .... The other (E0 = 1, E1 = 1) area  
                                 24-hour .... Only (E0 = 1, E1 = 1) area
- Alarm function
- 60 min. sleep timer (Japanese specification only)
- Battery charging timer function
- Beep sound output

TC9308AF-022 Layout (With prescaler : TD6134AF)

