TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

# TC9316F-026

## **DIGITAL TUNING SYSTEM (DTS-11)**

The TC9316F-026 is a digital tuning system optimum for portable sets such as pocket radios, headphone stereo sets, etc... By combining TC9316F-026 with prescalar TD7101F or TD6134AF, 4-band of FM/MW/LW/SW are provided compatibly with worldwide destinations.

#### **FEATURES**

### Receiving band

AREA	CODE		BAND	RECEIVING	STEP [Hz]	FREF. [Hz]	IF [Hz]
	A1/SW1	A0/SW0	BAND	RANGE [Hz]	JILI [IIZ]	11(11. [112]	11 [112]
U.S.A	0	*1 0	FM	87.5 ~ 108.0M	100 / 200k	12.5k	+ 10.7M
			MW	522 ~ 1620k	9k	3k	+ 450k
				520 ~ 1710k	10k	5k	
			TV	2 ~ 13ch	1ch	6.25 / 12.5k	+ 10.7M
General	0	1	FM	87.5 ~ 108.0M	50 / 100k	12.5k	+ 10.7M
			MW	522 ~ 1620k	9k	3k	+ 450k
				520 ~ 1620k	10k	5k	
			LW	144 ~ 281k	1k	1k	
Europe East / Europe *2	1	0	FM	64.0 ~ 75.0M	50k	12.5k	+ 10.7M
				87.5 ~ 108.0M	50k	12.5k	+ 10.7M
			MW	522 ~ 1620k	9k	3k	+ 450k
				520 ~ 1620k	10k	5k	
			LW	144 ~ 281k	1k	1k	
Japan	1	1	FM	76.0 ~ 108.0M	50 / 100k	12.5k	– 10.7M
			MW	522 ~ 1629k	9k	3k	+ 450k
				520 ~ 1620k	10k	5k	
			TV	1 ~ 12ch	1ch	6.25 / 12.5k	– 10.7M
_	0	1	sw	5.95 ~ 15.6M	5k	5k	+ 450k
	1	0		3.8 ~ 12.5M			
	1	1		2.3 ~ 7.3M			
				9.5 ~ 26.1M			

<sup>\*1</sup> If step is 200kHz, range is 87.5~108.1MHz.

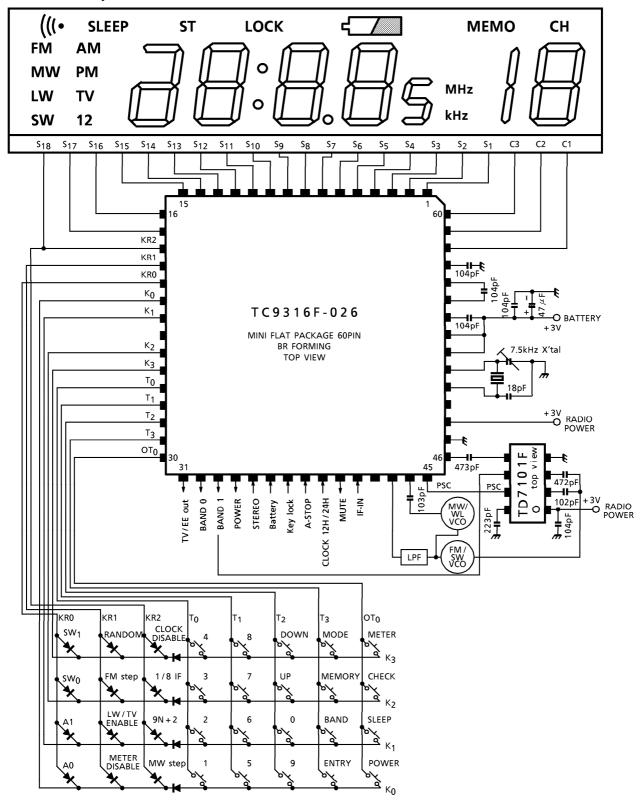
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<sup>\*2</sup> The frequency range of FM in Europe area is according to FM STEP jumper.

- Tuning function
  - Manual tuning
  - Seek tuning
  - SW meter band scan
  - Direct frequency input function
- Memory function
  - Fixed FM/MW/LW (SW1)/SW (SW2) Each band 6 stations
  - Random 15 stations
- O Direct key in of frequency
- Sleep function
- Clock function (12H/24H)

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TC9316F-026 Layout



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#### **RESTRICTIONS ON PRODUCT USE**

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