

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC9321F-005, TC9321F-009

DIGITAL TUNING SYSTEM

TC9321F-005, TC9321F-009 is a CMOS LSI designed for a FM/MW/LW ratio of a PLL frequency synthesizer system corresponded to the requirement of the whole world.

This Digital Tuning System is optimum for such car audio equipment as three band ratio with detachable panel.

- PLL + controller : TC9321F-005, TC9321F-009 (QFP-60PIN)
- LCD driver can control condition of key. : TC9297F (QFP-60PIN)
- Electronic volume : TEA6330T or TDA7313

FEATURES

○ Receiving band

AREA	CODE A2A1A0	BAND	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
EUROPE	000	FM	87.5 ~ 108.0M	50k	50k	+ 10.7M
		MW	522 ~ 1620k	9k	9k	450 / 459k
EAST EUROPE	001	FM	65.0 ~ 74.0M 87.5 ~ 108.0M	50k	50k	+ 10.7M
		MW	522 ~ 1620k	9k	9k	450 / 459k
USA1	010	FM	87.5 ~ 107.9M	200k	50k	+ 10.7M
		MW	520 ~ 1720k	10k	10k	+ 450k
USA2	011	FM	87.5 ~ 108.0M	100k	50k	+ 10.7M
		MW	520 ~ 1720k	10k	10k	+ 450k
LATIN AMERICA	100	FM	87.5 ~ 108.0M	100k	50k	+ 10.7M
		MW	530 ~ 1710k	10k	10k	+ 450k
AUSTRALIA MIDDLE AND NEAR EAST	101	FM	87.5 ~ 108.0M	100k	50k	+ 10.7M
		MW	531 ~ 1602k	9k	9k	+ 450k
JAPAN	110	FM	76.0 ~ 90.0M	100k	50k	- 10.7M
		MW	522 ~ 1629k	9k	9k	+ 450k
SOUTH AFRICA	111	FM	87.5 ~ 108.0M	50k	50k	- 10.7M
		MW	531 ~ 1602k	9k	9k	+ 450k

BAND	CODE LW1 LW0	FREQUENCY RANGE [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]
LW disable	00	—			
LW enable	01	153~279k	1k	1k	450 / 459k
	10	144~288k			
	11	146~290k			

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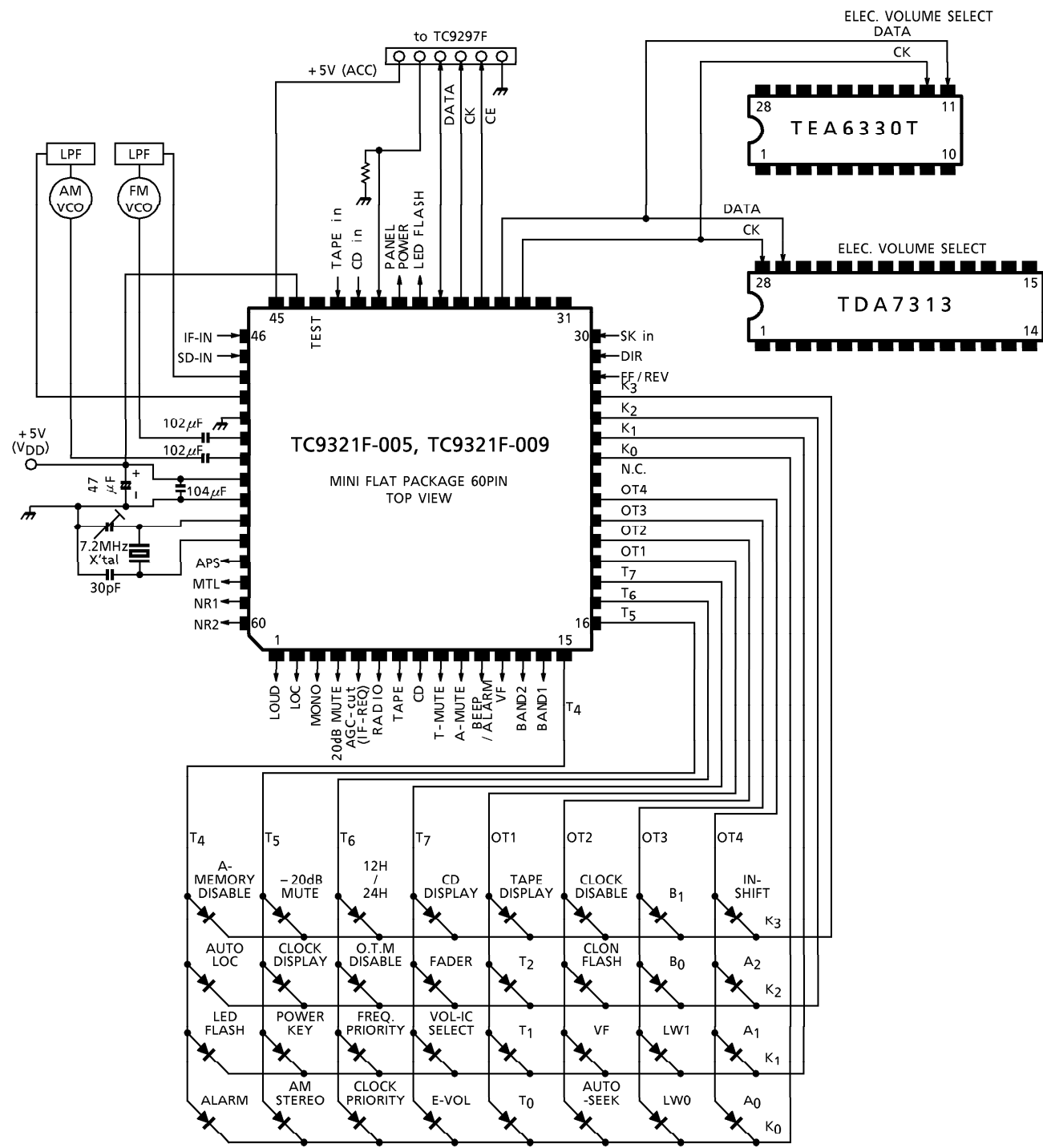
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● The information contained herein is subject to change without notice.

- Tuning function
 - Manual tuning (up/down)
 - Seek tuning (up/down)
 - Scan tuning (up/down)
 - Auto memory tuning
 - Preset memory scan
- Memory function
 - FM1/FM2/FM3 : max 18 stations
 - MW1/MW2 : max 12 stations
 - LW : 6 stations
 - VF : 6 stations
 - Maximum 42 stations in total.
 - Each band has a last memory.
- Radio function
 - VF band (VF auto tuning and DK stand by)
 - LOC/DX control (Auto local function select possible)
 - Stereo display and Mono/Stereo select
 - Radio monitor function
- Tape function
 - 'Tape' display
 - Metal/Normal select
 - APS on/off control
 - DNR on/off and B/C select
 - Tape running display (|>/<| and □□□□)
- Electronic volume/input select function
 - Volume/Bass/Treble/Balance/Fader
 - Loudness control
 - Radio/tape/CD input
 - Mute function
 - TEA6330T or TDA7313 selectable
- Clock function
 - 12 hour display with 'AM' and 'PM' indicator or 24 hour display
 - The colon display is possible to select flashing.
- Other function
 - CD input and 'CD' or 'DISC' display
 - Burglary prevention alarm, and LED flashing display

LAYOUT



LAYOUT

