

μ PD1710G-113, μ PD1710G-213**PLL/CONTROLLER FOR FM·MW·LW TUNER**

The μ PD1710G-113, μ PD1710G-213 is a PLL/controller, which is designed especially for car radio of FM·MW·LW bands in Europe.

FEATURES

- Single power supply of 5 V $\pm$ 10 %
- Low data retention current (less than 10 μ A)
- Six (6) buttons — Thirty six (36) preset station memories (18 for FM, 6 for MW, 6 for LW)
- Manual and automatic (SEEK) UP/DOWN and autoamtic (SCAN) UP selections (sawtooth wave mode)
- Preset scan function
- Last channel memory (3 for FM, 1 for MW, 1 for LW)
- Automatic memory function
- Check tone output for key operation (with external oscillator)
- Option function of LOUDNESS, METAL and DOLBY
- Automatic tuning of ARI or STEREO
- IF offset (FM: 10.700, 10.725 MHz, MW and LW: 450, 459 kHz)
- Preset station display (selectable dot or digit)
- Dimmer function
- Prescaler μ PB553AC (5 V, 130 MHz MAX.)
- Selectable lead type

Straight lead type (lead length 4 mm) : μ PD1710G-113-01 Package Dimension . . . ⑥

Straight lead type (lead length 3 mm) : μ PD1710G-213-03 Package Dimension . . . ⑦

Receiving Frequency, Channel Spacing, Reference Frequency, Intermediate Frequency

ITEM BAND	FREQUENCY RANGE	CHANNEL SPACING	REFERENCE FREQUENCY	INTERMEDIATE FREQUENCY
FM	87.50 to 108.00 MHz	25 kHz	25 kHz	10.700, 10.725 MHz
MW	522 to 1 611 kHz	9 kHz	9 kHz	450, 459 kHz
LW	155 to 281 kHz 153 to 279 kHz	1 kHz (NOTE)	1 kHz	

Note : 50 kHz step for FM and 9 kHz step for LW at automatic tuning

Key Matrix Configuration

INPUT OUTPUT	K ₃ (46)	K ₂ (44)	K ₁ (43)	K ₀ (42)
SEG a (34)	AUTO UP	AUTO DOWN	SCAN	AUTO MEMORY
SEG b (35)	MANUAL UP	MANUAL DOWN	M5	M6
SEG c (36)	M1	M2	M3	M4
SEG d (37)	ARI	LOUDNESS ON/OFF	METAL NORMAL	DOLBY ON/OFF
SEG e (38)		PRESET SCAN	MEMORY	STEREO MONO
SEG f (40)	FM/FM1 BAND		LW	MW
SEG g (41)	DIMMER ON/OFF			
D ₁ (1)	LW SELECT	LW MODE	BAND CHANGE1	BAND CHANGE2
D ₂ (52)	IF1	ARI MODE	CHANNEL DISPLAY	IF3

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APPLICATION CIRCUIT EXAMPLE

