

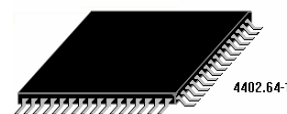
IND1723Q

CONTROLLER AND FREQUENCY SYNTHESIZER USED IN AUTOMOBILE RECEIVER WITH FM, MW, LW BAND

This device is functionally identical to the mPD1723. This integrated circuit is a CMOS LSI circuit developed for use in FM, MW, LW receivers. It is manufactured in 64-lead PQFP (Plastic Quad Flat Package). In-chip controller, Phase-Locked Loop (PLL) Frequency Synthesizer, watch, up to 200MHz frequency display scale, intermediate frequency counter, analog-to-digital converter (ADC), liquid-crystal display (LCD) driver all reduce sizes of high quality FM, MW, LW receivers, used in cars of high class.

Characteristics.

Device implements signal reception in FM, MW bands of world standard and LW band of European standard (Table 1)



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IND1723Q PLASTIC
T_A = -20° TO 70° C
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Region		Receiving frequency	Channel spacing, kHz	Reference frequency, kHz	Intermediate frequency, kHz
Europe 1	FM	87.5-108.0 MHz	50	25	10700
	MW	522-1620 kHz	9	9	450
	LW	144-290 kHz	1	1	450
Europe 2	FM	87.5-108.0 MHz	50	25	10700
	MW	522-1620 kHz	9	9	459
	LW	144-290 kHz	1	1	459
USA 1	FM	87.5-108.0 MHz	100	25	10700
	MW	530-1620 kHz	10	10	450
USA 2	FM	87.5-107.9 MHz	200	25	10700
	MW	530-1620 kHz	10	10	450
USA 3	FM	87.5-107.9 MHz	200	25	10700
	MW	530-1710 kHz	10	10	450
The Near East and the Middle East	FM	87.5-108.0 MHz	100	25	10700
	MW	531-1602 kHz	9	9	450
Japan	FM	76.0-90.0 MHz	100	25	-10700
	MW	522-1629 kHz	9	9	450
Central and South America	FM	87.5-108.0 MHz	100	25	10700
	MW	520-1620 kHz	5	5	450

It is possible to change band by changing ROM option.

- Device allows to select modes: manual tuning (search, scanning), station holding and by memory scanning.
- By means of 6 button it is possible to store 18 stations in FM band (6 stations in each FM1, FM2, FM3) 12 stations in MW band (6 stations in each MW1, MW2), 6 stations in LW and also VF band.
- IC has LAST CHANNEL MEMORY function (memory of last channel): FM-3, MW-2, LW-1, VF-1.
- Opportunity to implement automatic search of VF station (movement information and so on).
- Automatic station storing function.
- Device implements holding of stations recorded in memory while receiver is turned-off.
- Indication and control of MONO, LOC (search mode), stereo ST, tape type indication (MTL).
- CD indication.
- LOUD indication and control.
- Watch function (12 hours and 24 hours modes) with turn-off watch opportunity.
- In-chip up to 200MHz frequency display scale circuit (V_{in}=0.3V), intermediate frequency counter, ADC, LCD driver.
- Keypad data input port.
- One power supply 5V ± 10%
- Supply current MAX 21mA (in FM mode)
- Operating ambient temperature -20° - +70°C
- Quartz reference frequency 4.5MHz
- CMOS process

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