

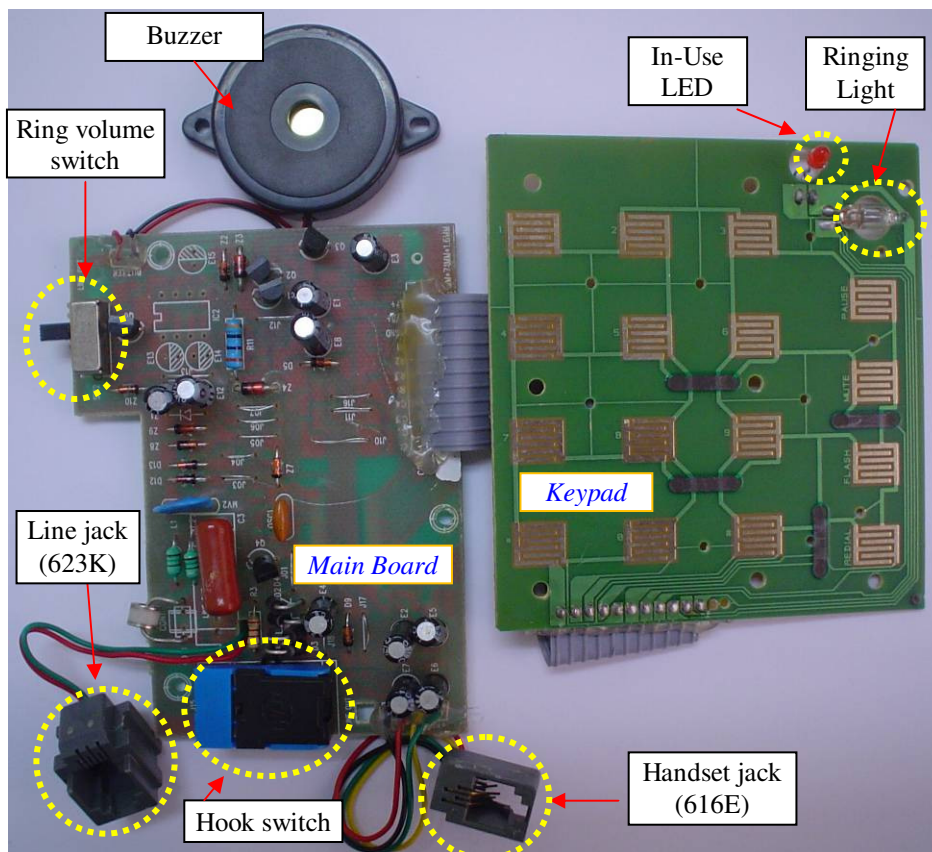
**FEATURES**

- Complete single-line telephone module
- Advanced ICM7102B phone IC
- Superb 6kV lightning protection
- High ring volume, 85dB typical
- Selectable medium ring volume
- Ring lamp indicator
- In-use LED indicator
- Loop current as low as 15mA
- Consistent DTMF level regardless of loop current level
- FLASH, REDIAL, PAUSE, and MUTE functions

**OVERVIEW**

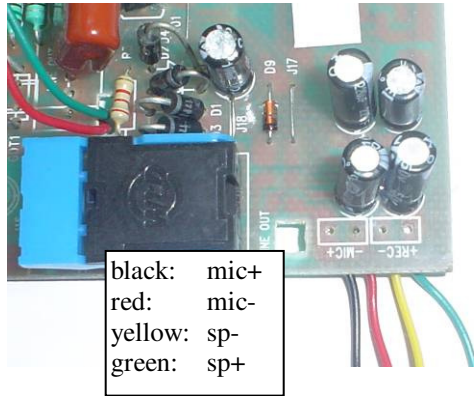
ICM9102M is a complete single-line telephone board module designed for low cost applications. The module is specially equipped with 6kV lightning protection. It also features exceptionally high ring volume selectable by slide switch.

Contact us to customize the printed circuit board to fit your enclosure requirements.

**TYPICAL MODULE CONFIGURATION**

**Figure 1.1** Typical Module Configuration

**TYPICAL JACK CONNECTIONS TO ELECTRET-MIC HANDSET**



**Figure 2.1** Handset wire connection to the board.



**Figure 2.2** Handset wire connection to the standard 616E jack.

**TYPICAL CHARACTERISTICS**

(Actual characteristics depends on the actual handset being used)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
<b>Acoustic</b>						
SLR	Send Loudness Rating	0km		1		dB
RLR	Receive Loudness Rating	0km		-6		dB
STMR	Sidetone Masking Rating	0km		8		dB
ZAC	AC Impedance	0km	400	470	650	$\Omega$
<b>DTMF</b>						
DTMF <sub>LF</sub>	DTMF Low Band Level		-11	-10	-9	dBm
DTMF <sub>HF</sub>	DTMF High Band Level		-9	-8	-7	dBm
	Twist		1	2	3	dB
<b>Others</b>						
R <sub>ONHOOK</sub>	Resistance, on-hook			7		M $\Omega$
R <sub>OFFHOOK</sub>	Resistance, off-hook	Loop = 25mA		300		$\Omega$
	Ring Level		80	85		dB

### **DISCLAIMER**

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