

# TRANSPONDER

# CLAMSHELL CARD · ISO CARD

THICK OR THIN CARD OF YOUR CHOICE

Hybrid Card  
(Contact+Contactless Chip)



Dual-frequency Card  
(125KHz+13.56MHz)



Contactless+Magnetic-strip Card



White Clamshell Card



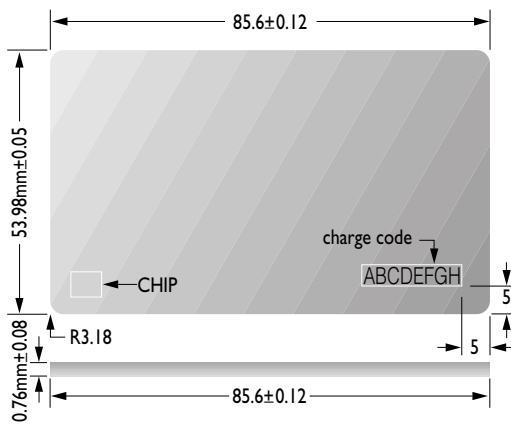
Grey Clamshell Card



Blue Clamshell Card



## EM ISO CARD



### FEATRUES

1. Type:contactless passive
2. Material:PVC
3. IC Chip:EM4102/GK4001
4. ISO Standard:ISO/IEC 10536
5. Reading distance:within 20cm(this ist dependent on antenna geometry)
6. Operating Frequency:100~150KHz
7. Dimensions:85.6mm±0.12x53.98mm±0.05x0.76±0.08mm
8. Operating Temperature:-20~+50°C
9. Storage Temperature:-20~+50°C
- 10.Humidity:up to 90% (non-condensing)
- 11.Surface Finish:Gloss / Matt
- 12.Antenna:copper coil
- 13.Magnetic stripe Coercivity :650oe(JIS),300oe(LoCo), 2750oe(HiCo)

### POSITION OF MAGNETIC STRIPE

#### Jis Magnetic stripe:

- Ext edge A 6.4mm (max.) • Int edge B 11.6mm(min.)
- Coercivity (oersteds)650oe

#### Other Magnetic stripe:

- Ext edge A 5.54mm(max.) • Int edge C 15.8mm(min.)
- Coercivity(oersteds)300oe(LoCo),2750oe(HiCo)

## CONTACTLESS CARD SPECIFICATION

Model No.	ISO Card	Imm ISO Card	Clamshell Card
Reading Distance	80mm	100mm	160mm
Base on GK4001 chip, with EM9917 Reader			
Operating temperature	-20°C to 50°C	-20°C to 50°C	-20°C to 70°C
Storage temperature	-20°C to 50°C	-20°C to 50°C	-40°C to 80°C
Material	PVC/PET	PVC	ABS
Operating Frequency	125KHz / 13.56MHz	125KHz	125KHz / 13.56MHz
Antenna	Copper Coil	Copper Coil	Copper Coil
Dimensions	85.6mm±0.12x53.98mm±0.05x0.76mm±0.08	85.6mm±0.12x53.98mm±0.05x1.0mm±0.08	85.6mm±0.12x53.98mm±0.05x1.84mm±0.04
<b>Technology</b>			
GK4001 (125KHz, 64bit, R/O)	Y	Y	Y
H4102 (125KHz, 64bit, R/O)	Y	Y	Y
I-Code SLI (13.56MHz, 1024bit, R/W)	Y	Y	Y
Mifare S50 (13.56MHz, 1KByte, R/W)	Y	Y	Y
Temic E5557 (125KHz, 330bit, R/W)	Y	Y	Y
Hitag 1 (125KHz, 2048bit, R/W)	Y	Y	Y
Hitag 2 (125KHz, 256bit, R/W)	Y	Y	Y
Legic 256 (13.56MHz, 256Byte, R/W)	Y	Y	Y

**Application:** Door Access Control, Burglar Prevention, Patrol Management, Personal Identification, Car Park Control, Member Club Management, etc.

## ISO CARD

### FEATRUES

1. Type:contactless passive
2. Material:PVC / PET
3. IC Chip:By customer
4. ISO Standard:ISO/IEC 10536
5. Reading distance: this ist dependent on antenna geometry & chip Features
6. Operating Frequency:125K,13.56MHz system
7. Dimensions:85.6mm±0.12x53.98mm±0.05x0.76±0.08mm
8. Operating Temperature: -20~+50°C
9. Storage Temperature: -20~+50°C
- 10.Humidity:up to 90% (non-condensing)
- 11.Surface Finish: Gloss / Matt
- 12.Antenna:copper coil
- 13.Magnetic stripe Coercivity(Optional):300oe(LoCo), 650oe(JIS),2750oe(HiCo)

### POSITION OF MAGNETIC STRIPE

#### Jis Magnetic stripe:

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### POSITION OF PUNCH(OPTIONAL)

#### Position of punch mark 1

- Ext edge D 35.30mm(max.) Int edge E 50.30mm(min.)
- Ext edge F 4.00mm(max.) Int edge G 7.50mm(min.)

#### Position of punch mark 2

- Ext edge H 19.50mm(max.) Int edge I 34.50mm(min.)
- Ext edge J 4.00mm(max.) Int edge K 7.50mm(min.)
- Mark dimension A 8.00mm±0.50 B 1.50mm±0.50

#### Position of punch mark 3

- Horizontal L 42.80mm±0.50 Vertical M 5.0mm±0.50

#### Position of punch mark 4

- Horizontal O 5.00mm±0.50 Vertical P 27.00mm±0.50