

IC Memory Cards

★ Under development

Compact, large-capacity, high-speed IC memory cards capable of processing streams of information are receiving high praise for being the media ideally suited to today's information-oriented society. Sharp has a variety of IC memory cards to meet every need.

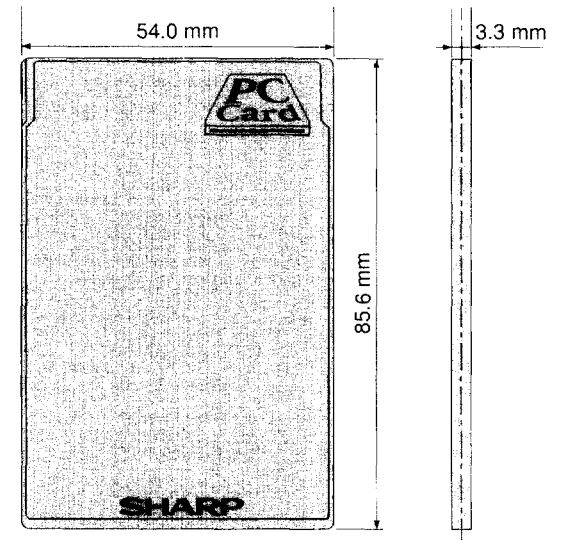
The ID2 series of PC Cards (conforming to PCMCIA/JEIDA PC Card standard) and the Sharp original ID1 series are available to meet your unique requirements. Upon request, we can offer any memory types, capacities and outlines that are not listed below.

■ ID2 series

The ID2 series conforms to PCMCIA/JEIDA PC Card standard.

● Lineup by Memory Type

Memory Type	Capacity (Byte)														
	64k	128k	256k	512k	1M	1.5M	2M	4M	8M	16M	20M	32M	40M	48M	64M
Flash memory		●	●	●		●	●	●	●	★	★	★	★		
Mask ROM		●	●	●		●	●	●	●		●				●
SRAM	●	●	●	●	●	●	●								



● ROM/RAM Mixed Type (Custom-made)

Capacity (Byte)	Capacity (Byte)	SRAM		
		250k	512k	1M
Mask ROM	2M	●	●	●
	4M	●	●	●
	16M	●	●	

■ ID1 series (Custom-made)

The ID1 Series are Sharp's original outlines. The circuits and pin connections are all custom-made, with the exception of external dimensions.

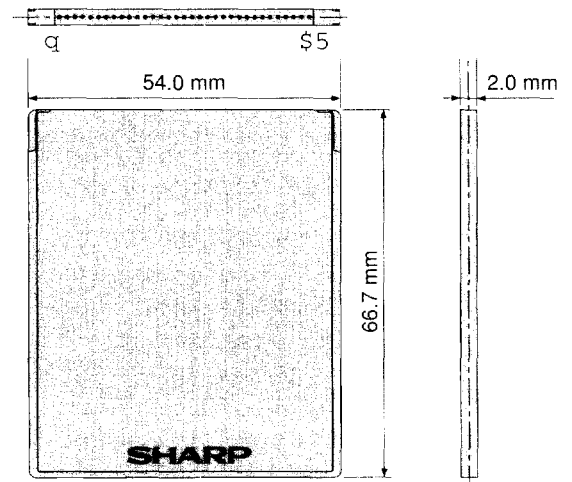
● Lineup by Memory Type

Memory Type	Capacity (Byte)								
	64k	128k	256k	512k	1M	1.5M	2M	4M	8M
Flash memory		●	●	●	●		●		
Mask ROM	●	●	●	●	●	●	●	●	●
SRAM	●	●	●		●*				

* 4M-bit x 2

● ROM/RAM Mixed Type

Capacity (Byte)	Capacity (Byte)	SRAM		
		32k	64k	128k
Mask ROM	512k	●	●	●
	1M	●	●	●
	4M	●	●	●



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■ ID2 Series (Conforming to PCMCIA/JEIDA PC Card Standard)

Type	Memory capacity (byte)	Bit configuration	Model No.	Access time (ns) MAX.	Supply voltage (V)	Read current MAX.	Standby current MAX.
Flash memory	2M	x 8/x 16	ID23M020	200	5 ± 10% 12 ± 5%	80 mA	2 mA
	4M		ID23M040				
	8M		ID23M080				
	16M		ID23M160				
	256k		ID23K256	250	5 ± 10% 12 ± 5%	110 mA	
	512k		ID23K512				
	1M		ID23M010				
	1M		★ID24M010	150	5 ± 10%	130 mA	
	2M		★ID24M020				
	4M		★ID24M040				
	8M		★ID24M080				
	16M		★ID24M160				
	20M		★ID24M200				
	32M		★ID24M320				
	40M		★ID24M400				
	48M		★ID24M480				
Mask ROM	256k	Fix to x 8 or x 16 as user option	ID22K256	130	5 ± 10%	60 mA	50 μA
	512k		ID22K512			65 mA	
	1M		ID22M010			70 mA	
	2M		ID22M020	150		75 mA	
	4M		ID22M040			90 mA	
	8M		ID22M080			100 mA	
	16M		ID22M160	200		80 μA	
	32M		ID22M320			200 μA	
	64M		ID22M640				
Static RAM	64k	x 8/x 16	ID21K064	200	4.75 to 5.50	200 mA	2 mA
	128k		ID21K128				
	256k		ID21K256				
	512k		ID21K512				
	1M		ID21M010				
	1.5M		ID21M015				
	2M		ID21M020				
	4M		ID21M040				