

IC Card Contact

XR7A

Applicable to ISO 7816 Compatible
IC Cards

- Utilizes standard IC card contact dimensions
- Button-style for extremely space-constrained applications
- Available with or without card detect switch
- Surface mount directly to PCB



Ordering Information

Magnetic tracks supported (R, R/W)					Item					
1	2	3	Center	JISII	Number of pins	Interface	Detect switch	Cable	Cover	Part Number
—	—	—	—	—	8-pin	Contact	No	No	No	XR7A-0835-1
—	—	—	—	—	6-pin	Contact	Yes	No	No	XR7A-0635-2

Specifications

■ RATINGS/CHARACTERISTICS

Part number	XR7A-0835-1	XR7A-0635-2
Type	Module type	Module type (with card detector switch)
Number of poles	8	6 + 2 switch poles (normally open)
Terminal construction	SMT terminals	
Rated current	0.5 A	
Contact resistance	100 mΩ max. (at 20 mVDC, 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Withstand voltage	500 VAC for 1 min. (leakage current 1 mA max.)	
Insertion durability	100,000 times	
Operating temperature	-40°C to 90°C (-40°F to 194°F) No icing at low temperature	

■ MATERIALS/FINISH

Part number	XR7A-0835-1	XR7A-0635-2
	Module type	Module type (with card detector switch)
Base	Fiberglass-reinforced PPS (UL94V-0)/black	Fiberglass-reinforced LCP (UL94V-0)/black
Case	---	
Contact connector	Phosphor bronze/nickel base, gold plated	
Contact terminal	Phosphor bronze/nickel base, tin alloy plated	
Switch contact connector	---	Phosphor bronze/nickel base, gold plated
Switch contact terminal	---	Phosphor bronze/nickel base, tin alloy plated

Note: XR7A IC card contacts are compatible with IC Cards conforming to ISO 7816 contact dimensions.

■ RECOMMENDED REFLOW CONDITIONS

Preheating temperature	150°C ±10°C (302°F ±50°F)
Preheating time	60 to 120 s
Soldering temperature	200°C to 240°C (392°F to 464°F)
Soldering time	30 s max.

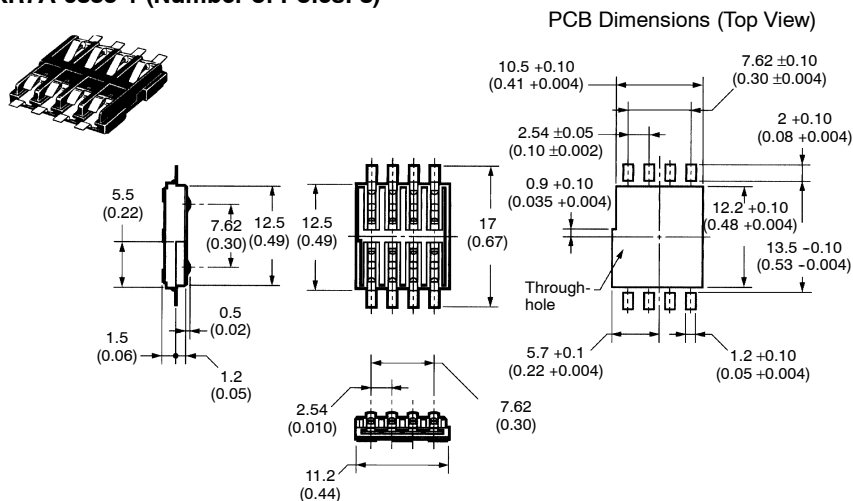
Note: The soldering time is 10 s max. when the soldering temperature is 240°C (464°)

Dimensions

Unit: mm (inch)

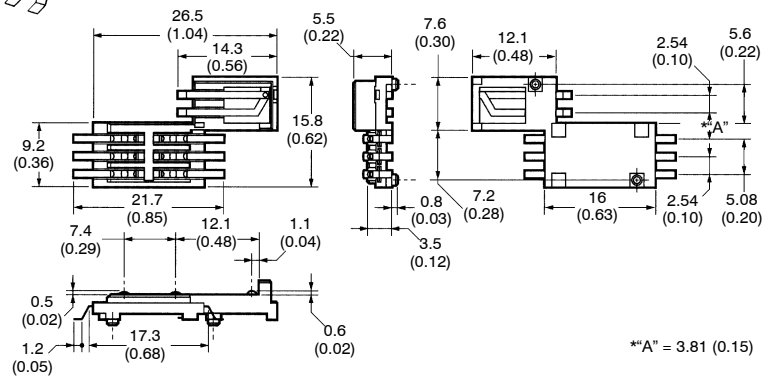
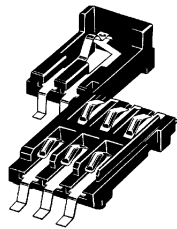
■ MODULE TYPE

XR7A-0835-1 (Number of Poles: 8)

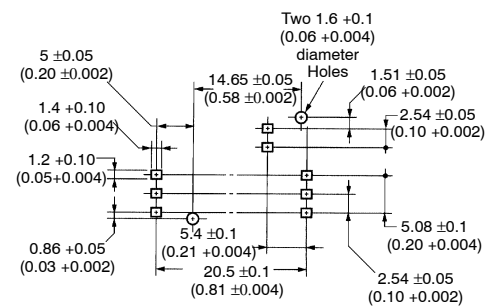


■ MODULE TYPE WITH CARD DETECTOR SWITCH

XR7A-0635-2 (Number of Poles: 6 + 2 Switch Poles)



PCB Dimensions (Top View)



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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