

Automotive Plug-In Micro ISO Relay

PC780



FEATURES

- 25 Amps at 14VDC Rating
- Micro ISO Terminals
- 105°C Operating Temperature
- Miniature Package - 22.6 x 15.2 x 16.2 mm



UL / CUL Ratings

Contact Form	1A SPST N.O.
Contact Rating	25A @ 14VDC, resistive 12A @ 28VDC, resistive

CONTACT DATA

Maximum Switching Power	350 W
Maximum Switching Voltage	48 VDC
Maximum Continuous Current	25 A
Material	AgSnO ₂
Initial Contact Resistance	50 mΩ max.
Service Life	Mechanical 1 x 10 ⁷ operations
	Electrical 1 x 10 ⁵ operations

CHARACTERISTICS

Insulation Resistance	20 MΩ min. at 500 VDC
Dielectric Strength	500 Vrms, 50 Hz, between contacts 500 Vrms, 50 Hz, between coil & contacts
Power Consumption	1.1 W
Terminal Strength	10N
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40°C to 105°C
Storage Temperature	-40°C to 105°C
Shock Resistance	100 m/s ² 11 ms
Vibration Resistance	10 Hz - 100 Hz; 44.1 m/s ²
Weight	15g

ORDERING INFORMATION

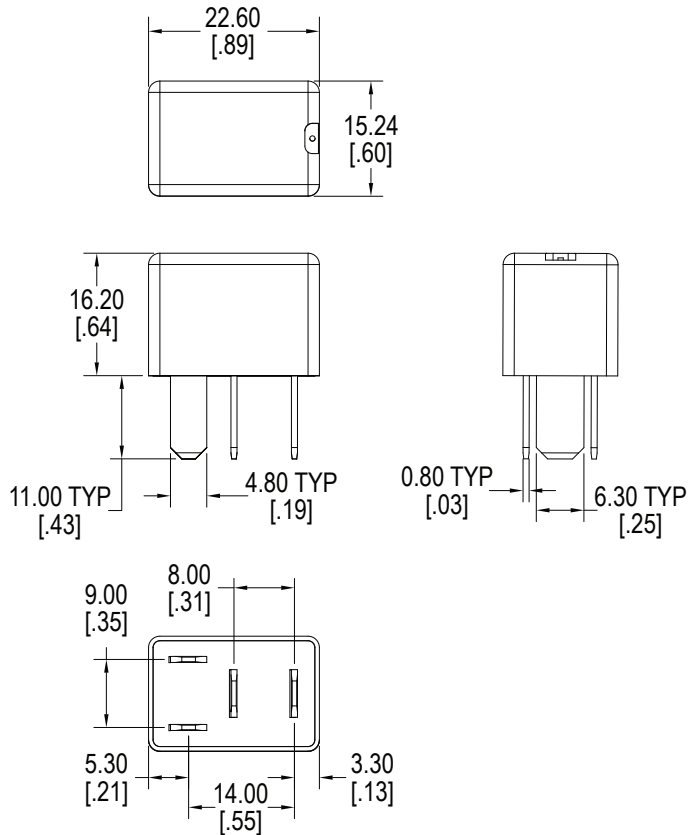
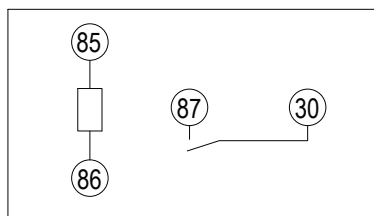
Example	PC780	-1A	-12	C	-R	-X
Model:	PC780					
Contact Form:	1A					
Mounting Version:	Nil = Plug-In					
Coil Voltage	12					
Enclosure	C = Dust Cover S = Sealed S1 = Flux Tight ⁽¹⁾					
Parallel Component	Nil = None R = Resistor (680 Ohms)					
RoHS Compliant	-X					

⁽¹⁾ Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT suitable for water wash cleaning.

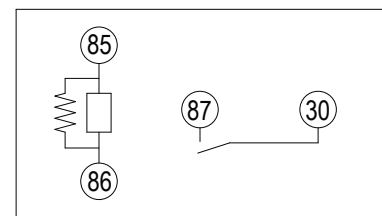
Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the applicaiton. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

COIL DATA

Coil Voltage		Resistance (Ohms $\pm 10\%$)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
12	15.6	180	7.8	1.2	.80	10	10

DIMENSIONS *mm (inches)*SCHEMATICS *Bottom View*

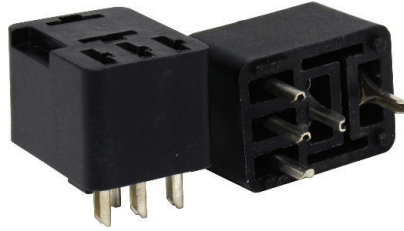
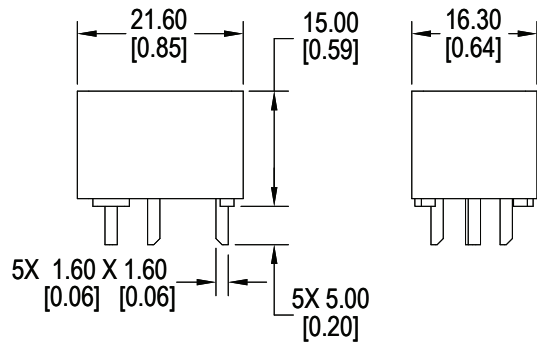
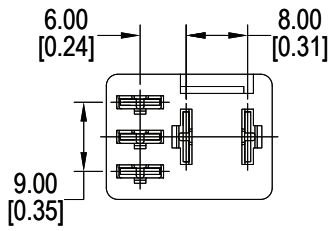
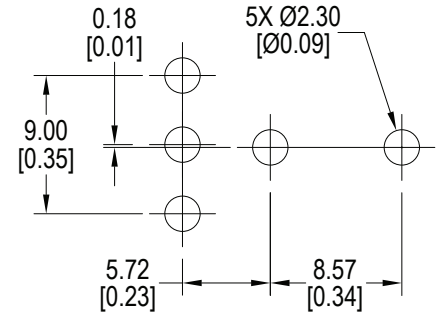
1A



1A with resistor

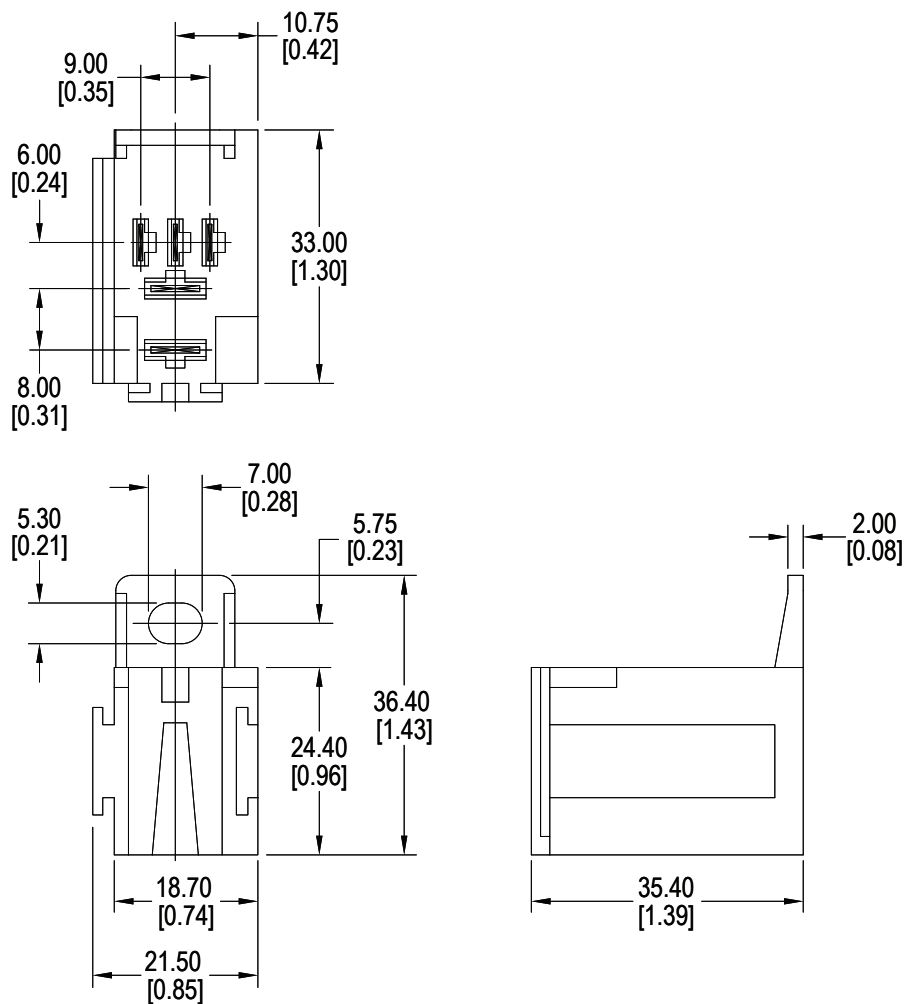
SOCKETS mm (inches)

RS1105

Suggested PC Layout *Top View*

SOCKETS mm (inches)

RS1200

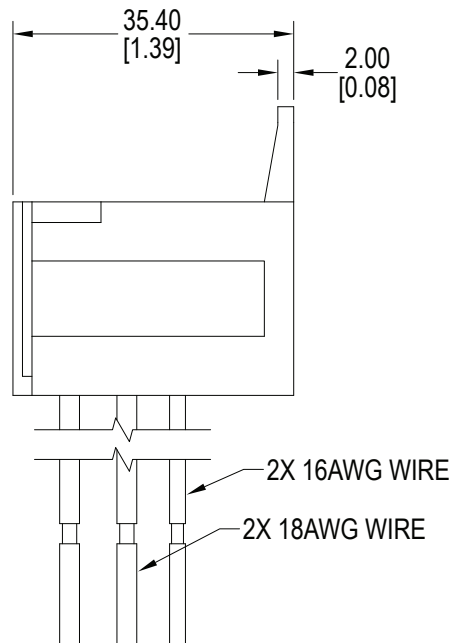
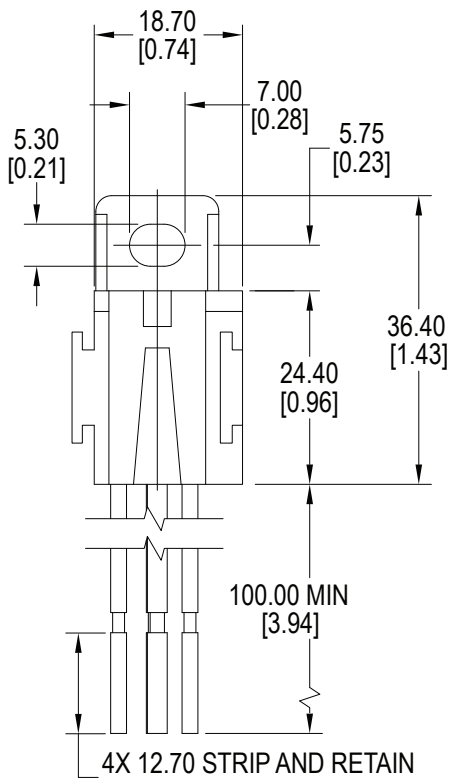
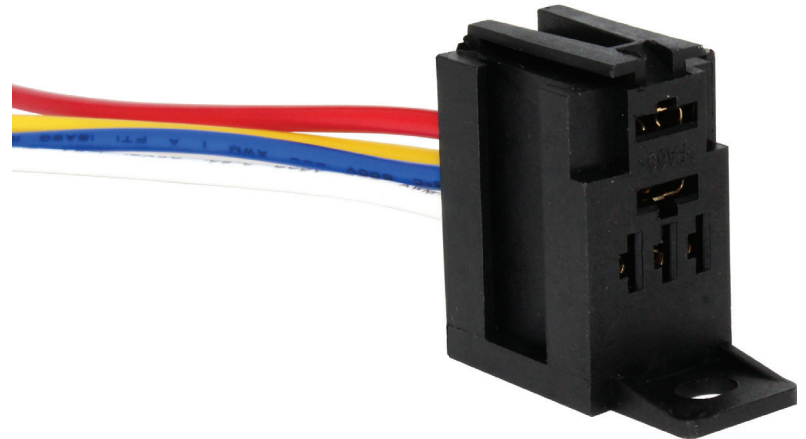
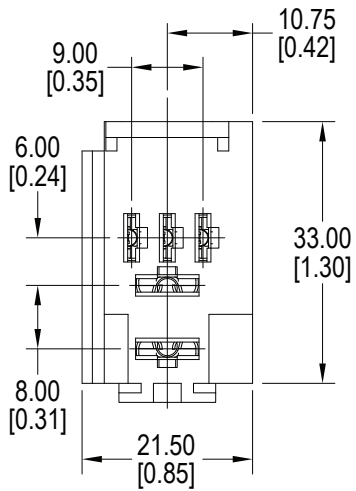
**Metal Crimp Terminal Compatibility**

Mfr.	Part Number	Wire AWG	Blade
TE	42100-2	14-18	1/4"
TE	42881-1	14-19	1/4"
TE	42904-2	12-16	1/4"
TE	60249-3	12-16	1/4"
TE	60253-2	12-14	1/4"
TE	281197-2	13-17	3/16"
TE	282180-3	15-20	3/16"

CIT Relay & Switch references these female quick connect terminals to be used with our automotive sockets. Current capability of the terminals depends on the gauge of the wire used, the quality of the crimp, the addition of solder or a weld, operating conditions, ambient temperature, and so forth. Terminals to be purchased separately from the manufacturer.

SOCKETS mm (inches)

RS1214



SOCKETS mm (inches)

RS1215

