



FEATURES

- Micro Size ISO Plug-In Design
- 1A & 1C Contact Forms
- -40°C to 125°C Operating Temperature
- Internal Diode or Resistor Option



CONTACT RATINGS

Contact Form	1A SPST N.O.
	1C SPDT
Contact Rating	1A 35A @ 14 VDC, resistive 15A @ 28VDC, resistive
	1C NO 35A @ 14VDC, resistive NC 20A @ 14VDC, resistive NO 15A @ 28VDC, resistive NC 10A @ 28VDC, resistive

CHARACTERISTICS

Insulation Resistance	100 MΩ min. at 500 VDC
Dielectric Strength	500 Vrms, 50 Hz, between contacts 500 Vrms, 50 Hz, between coil & contacts
Power Consumption	1.5 W (12V); 1.8W (24V)
Terminal Strength	8N
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Shock Resistance	100 m/s ² 11 ms
Vibration Resistance	10-55Hz; 1.5mm double amplitude
Weight	18.0g

CONTACT DATA

Maximum Switching Power	560 W
Maximum Switching Voltage	28 VDC
Maximum Continuous Current	40 A
Material	AgSnO ₂
Initial Contact Resistance	50 mΩ max.
Service Life	Mechanical 1 x 10 ⁷ operations
	Electrical 1 x 10 ⁵ operations

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 application. 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.

ORDERING INFORMATION

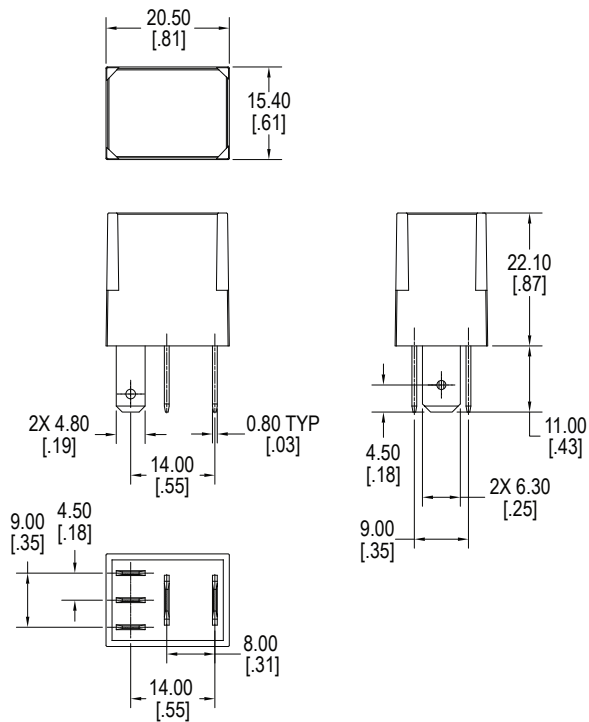
Example	PC784	-1C	-12	S	-R	-X
Model:	PC784					
Contact Form:	1A 1C					
Mounting Version:	Nil = Plug-In					
Coil Voltage:	12 = 12VDC 24 = 24VDC					
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight ⁽¹⁾					
Parallel Component	Nil = None D = Diode (1N4005) D1 = Reverse Diode (1N4005) R = Resistor (680 Ohms for 12VDC, 2700 for 24VDC)					
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.

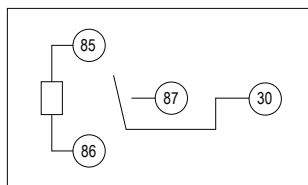
COIL DATA

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	96	7.20	1.20	1.5	10	10
24	31.2	320	14.40	2.40	1.8		

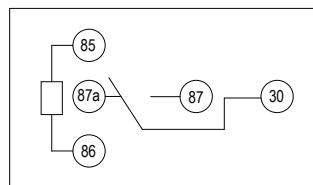
DIMENSIONS mm (inches)



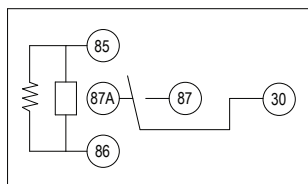
SCHEMATICS Bottom Views



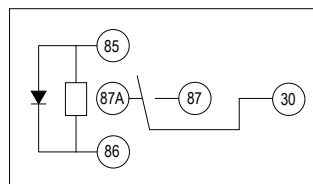
1A



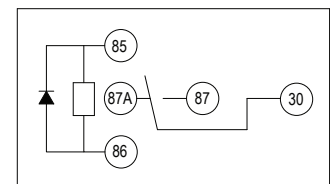
1C



1C with Resistor



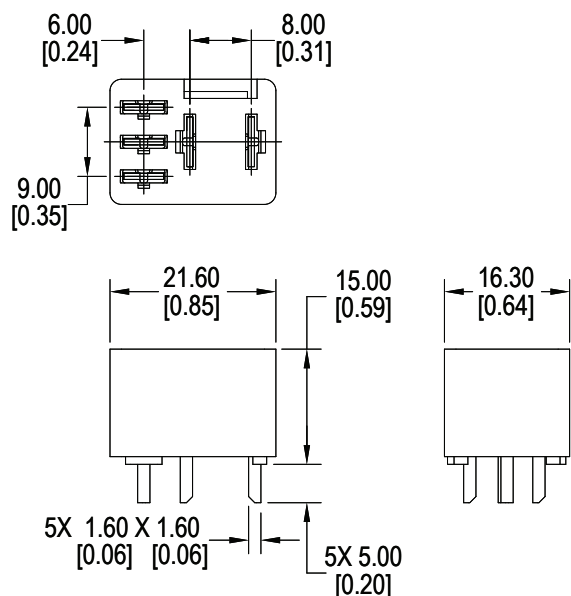
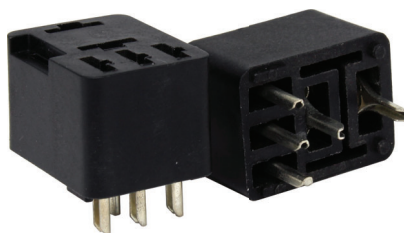
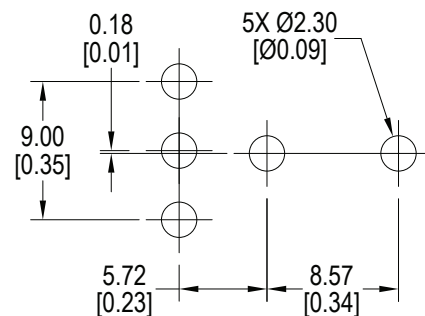
1C with Diode



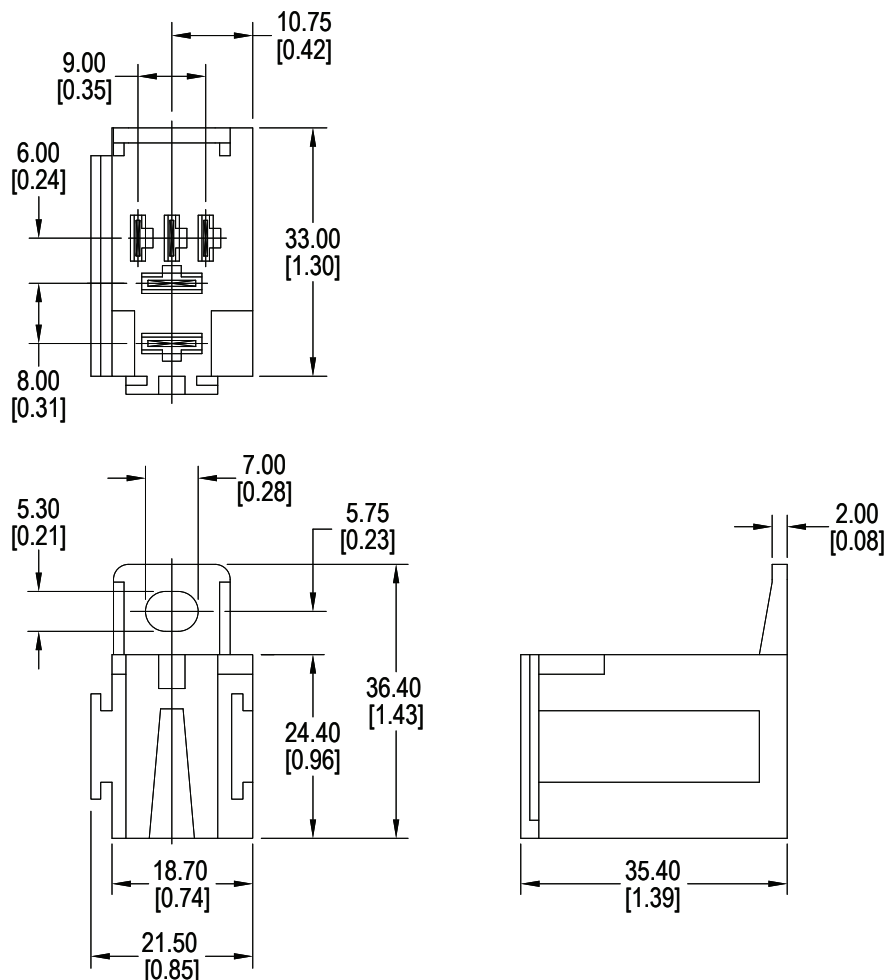
1C with Reverse Diode

SOCKETS mm (inches)

RS1105

Suggested PC Layout *Top View*

RS1200



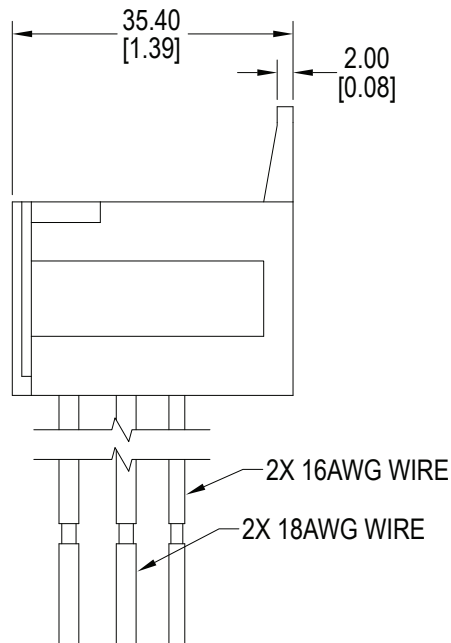
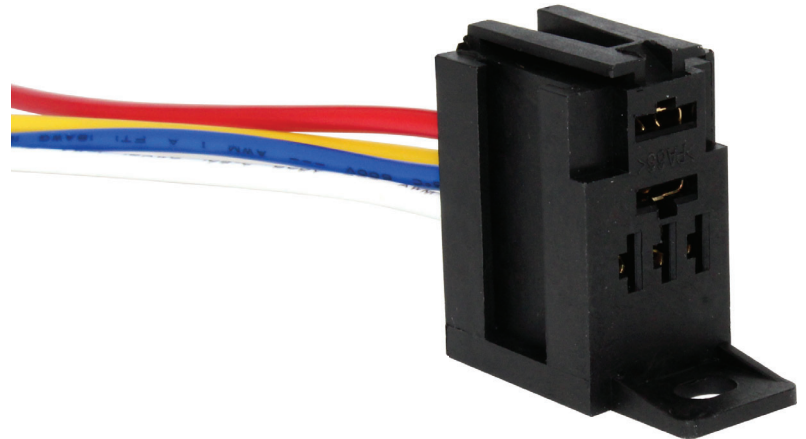
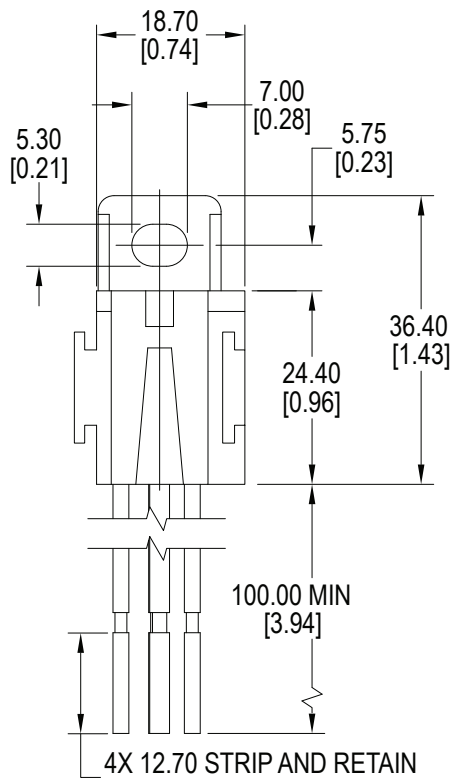
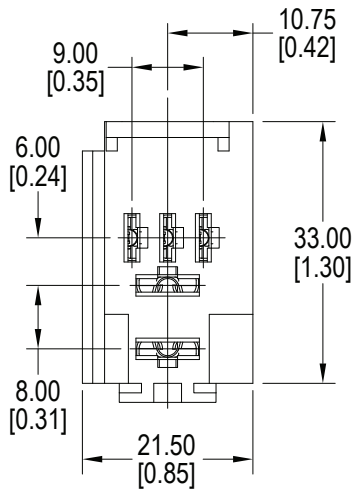
Metal Crimp Terminal Compatibility

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

