

# 2 Amp Communication



## CIMI-19FS Series Relay

### Features:

- Epoxy sealed sub-miniature package
- DIP Compatible PCB Terminals
- Meets FCC Part 68, 1,500V Surge Strength
- High sensitive 150mW Standard
- Coils with other sensitivities are also available

### Contact Parameters:

Initial Contact Resistance:	<50 mΩ
Resistive Contact Rating:	2A @28Vdc, 0.5A @125Vac, P.F. 75% 1mA @10mVac/dc min.
Switching Power:	30W/50VA max. 10μW min.
Contact Arrangement:	2 Form C (DPDT) Bifurcated

### Insulation Characteristic:

Insulation Resistance:	>1,000 MΩ
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### Environmental Characteristics:

Temperature Range:	-25°C to 75°C
Relative Humidity:	95% @ 20°C
Shock Resistance:	50g
Vibration Resistance:	10 ~70Hz @ 1.5mm (Double Amplitude)

### Dielectric Withstanding Voltage:

Between Contacts:	500 Vrms
Contact Sets:	1,000 Vrms
Coil and Contacts:	1,000 Vrms
Surge Voltage:	1,500 Vrms

### Life Expectancy:

Electrical:	10 <sup>6</sup> @ 140mA/100V
Mechanical:	2 x 10 <sup>7</sup> operations

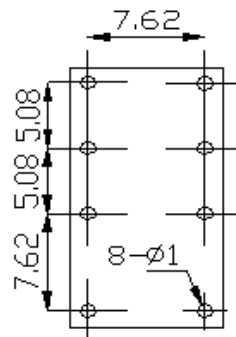
### Mechanical Data:

Dimension:	0.795 x 0.39 x 0.475 inches max.
Termination:	PCB Terminals (DIP)
Weight:	5 grams Approx.

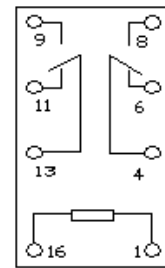
### Coil Data @ 20 °C (Coil Power: 150 mW)

Rated Voltage (Vdc)	Coil Res. (Ω ±10 %)	Pick-up (Vdc)	Drop-out (Vdc)
5	167	3.75	0.40
6	240	4.50	0.48
9	540	6.75	0.72
12	960	9.00	0.96
18	2,160	13.50	1.44
24	3,840	18.00	1.92
48	15,360	36.00	3.84

\* Coils with other sensitivities listed on next page.



Terminal Layout  
(Bottom View)



Wiring Diagram  
(Bottom View)

### Ordering Information:

	<b>CIMI-</b>	<b>19FS</b>	<b>-24</b>	<b>(1100)</b>
1. Basic Type:	19FS			
2. Coil Voltage:	5, 6, 9, 12, 18, 24, 48Vdc			
3. Coil Resistance: (may not appear on relay)	Blank: For standard 150mW coils. XXXX: Last 4 digit of the actual coil resistance for all special coils.			

**Coils with other sensitivities:**

**Coil Data @ 20 °C (Coil Power: 200 mW)**

<b>Rated Voltage (Vdc)</b>	<b>Coil Res. (<math>\Omega \pm 10\%</math>)</b>	<b>Pick-up (Vdc)</b>	<b>Drop-out (Vdc)</b>
5	125	3.75	0.40
6	180	4.50	0.48
9	405	6.75	0.72
12	720	9.00	0.96
24	2,880	18.00	1.92
48	11,520	36.00	3.84

**Coil Data @ 20 °C (Coil Power: 300 mW)**

<b>Rated Voltage (Vdc)</b>	<b>Coil Res. (<math>\Omega \pm 10\%</math>)</b>	<b>Pick-up (Vdc)</b>	<b>Drop-out (Vdc)</b>
5	83	3.75	0.40
6	120	4.50	0.48
9	270	6.75	0.72
12	480	9.00	0.96
24	1,920	18.00	1.92
48	7,680	36.00	3.84

**Coil Data @ 20 °C (Coil Power: 360 mW)**

<b>Rated Voltage (Vdc)</b>	<b>Coil Res. (<math>\Omega \pm 10\%</math>)</b>	<b>Pick-up (Vdc)</b>	<b>Drop-out (Vdc)</b>
5	69	3.75	0.40
6	100	4.50	0.48
9	225	6.75	0.72
12	400	9.00	0.96
24	1,600	18.00	1.92
48	6,400	36.00	3.84

**Coil Data @ 20 °C (Coil Power: 400 mW)**

<b>Rated Voltage (Vdc)</b>	<b>Coil Res. (<math>\Omega \pm 10\%</math>)</b>	<b>Pick-up (Vdc)</b>	<b>Drop-out (Vdc)</b>
5	63	3.75	0.40
6	90	4.50	0.48
9	203	6.75	0.72
12	360	9.00	0.96
24	1,440	18.00	1.92
48	5,760	36.00	3.84