



Applicable sockets:  
SO-1048-8308/8518

**Application Notes:**

101  
102  
103D  
007  
023

• All weld construction

• Contact arrangement

4 PDT

• Qualified at 10 Amps to

MIL-PRF-83536/15

### PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at

28 Vdc; 115 Vac, 400 Hz, 1Ø  
and 115/200 Vac, 400 Hz, 3Ø

• Weight

0.200 lbs. max

• Dimensions

1.01 in x 1.10 in x 1.00 in

• Special models available upon request

• Hermetically sealed, corrosion resistant metal can

### CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps			
	@28 Vdc	@115 Vac 400 Hz	@115/200 Vac 400 Hz, 3Ø	@115/200 Vac 60 Hz, 3Ø [2]
Resistive	12	12	12	2.5
Inductive [3]	8	8	8	2.5
Motor	4	4	4	2
Lamp	2	2	2	1
Overload	40	60	60	N/A
Rupture	50	80	80	N/A

## COIL CHARACTERISTICS (Vdc)

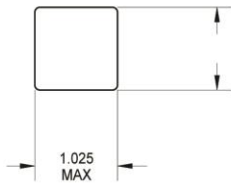
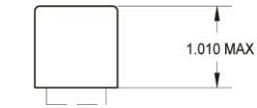
CODE	A	B	C	M	N [4]	R [4]	V [4]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage	29	14.5	7.3	50	29	14.5	7.3
<b>Maximum pickup voltage</b>							
- Cold coil at +125° C	18	9	4.5	36	18	9	4.5
- During high temp test at +125° C	19.8	19.9	5	38	19.8	9.9	5
- During continuous current test at +125° C	22.5	11.25	5.7	42	22.5	11.25	5.7
Maximum drop-out voltage	7	4.5	2.5	14	7	4.5	2.5
Coil resistance $\Omega \pm 10\%$ +25° C, except types "C" and "V" +20%, -10%	290	70	18	890	290	70	18

## GENERAL CHARACTERISTICS

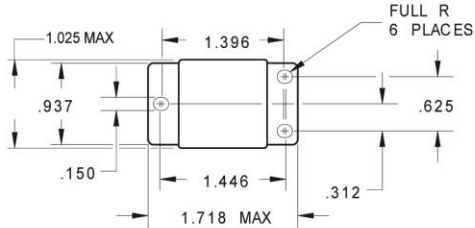
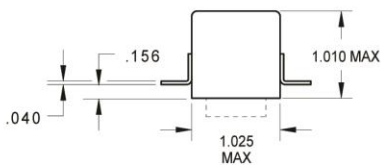
Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	100,000
Minimum operating cycles (life) at 25% rated load	400,000
Dielectric strength at sea level - All circuits to ground and circuit to circuit	1250 Vrms
Dielectric strength at sea level - Coil to ground	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
Insulation resistance - Initial (500 Vdc)	100 M $\Omega$ min
Insulation resistance - After environmental tests (500 Vdc)	50 M $\Omega$ min
Sinusoidal vibration (A, B, D and W mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (G and J mounting)	0.12 d.a. / 10 to 57 Hz 20G / 57 to 3000 Hz
<b>Random vibration</b>	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition – A, B, D and W mounting	1G (0.4G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Test condition - G and J mounting	1E (0.2G <sup>2</sup> /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, B, D and W mounting)	200G / 6 ms
Shock (G and J mounting)	100G / 6 ms
Maximum contact opening time under vibration and shock	10 $\mu$ s
Operate time at nominal voltage @25°C	15 ms max
Release time at nominal voltage @25°C	15 ms max
Contact make bounce at nominal voltage @25°C	1 ms max
Contact release break bounce at nominal voltage @25°C	0.1 ms max [6]
Weight maximum (A, D, G, J and W mounting)	0.17 lbs.

Unless otherwise noted, the specified temperature range applies to all relay characteristics.

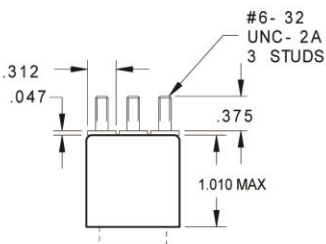
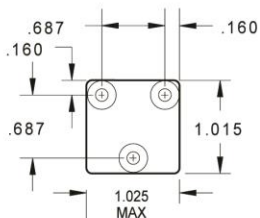
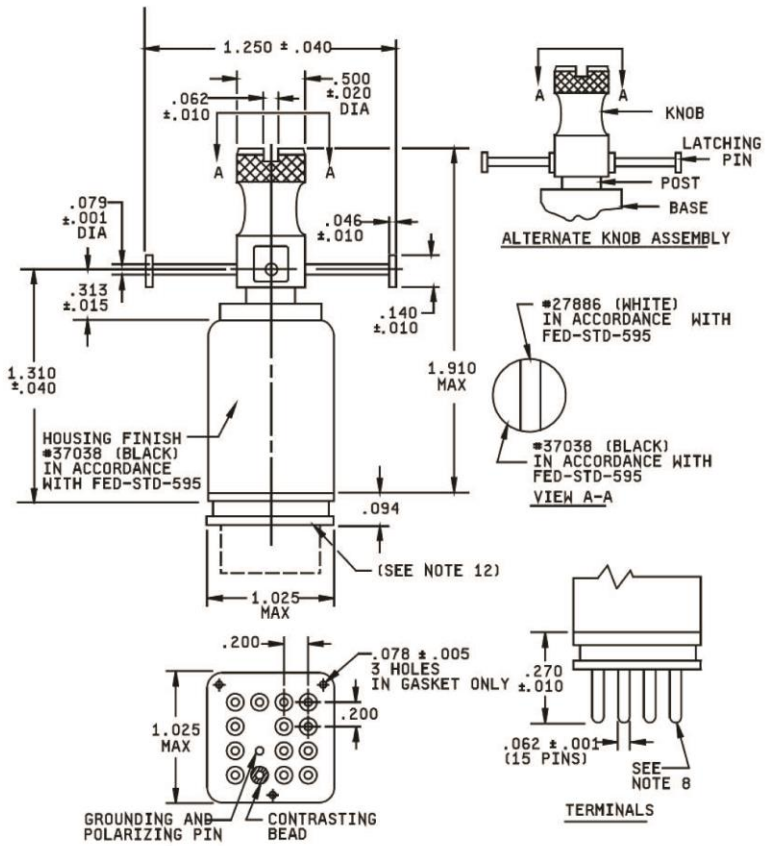
## MOUNTING STYLES



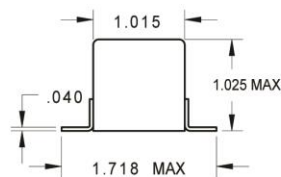
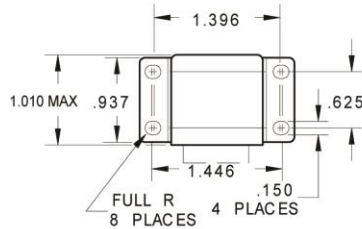
MOUNTING STYLE A



MOUNTING STYLE D

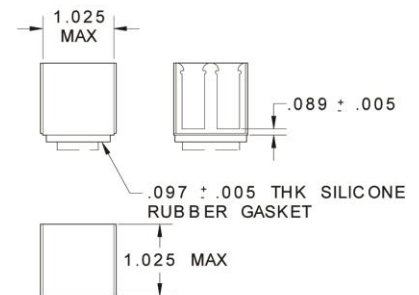


MOUNTING STYLE G



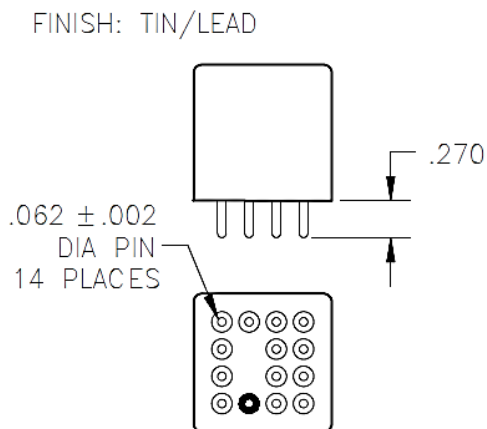
MOUNTING STYLE J

FOR USE WITH TRACK MOUNT SYSTEM. NOTE: TRACK SYSTEM NOT AVAILABLE FROM LEACH

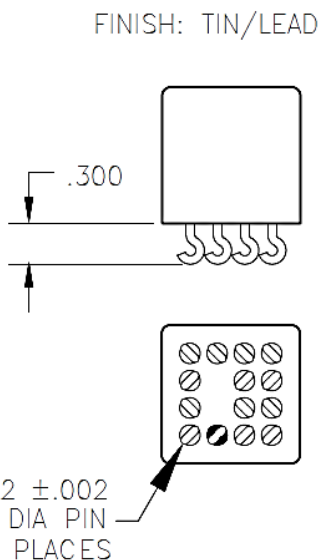


MOUNTING STYLE W

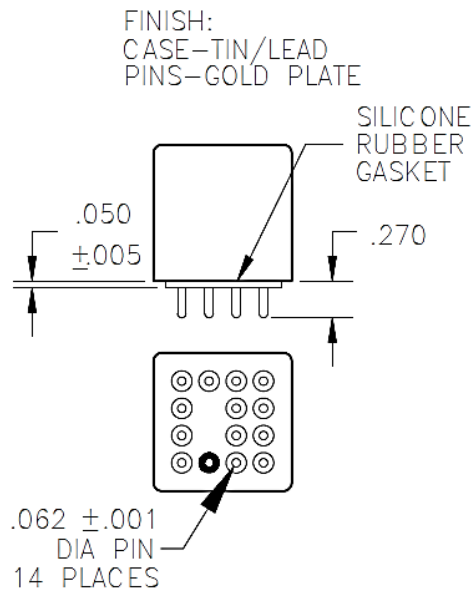
## TERMINAL TYPES



TERMINAL TYPE 1



TERMINAL TYPE 2



TERMINAL TYPE 4

Standard Tolerance: .xx ± .03; .xxx ± .010

