



Applicable Socket:
SO-1064-10444/10445

Application Notes:
001
007

- | | |
|---|---------------|
| • Contact arrangement | 2 PDT |
| • Meets the standards and requirements of | MIL-PRF-83536 |

PRINCIPLE TECHNICAL CHARACTERISTICS

- | | |
|--|--|
| • Contacts rated at | Low level, 28 Vdc and 115/200 Vac, 400Hz 3Ø, case grounded |
| • Weight | 0.034 lbs. max |
| • Dimensions | 0.41 in x 0.81 in x 0.41 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, 1Ø	115/200 Vac, 400 Hz, 3Ø
Resistive	5	5	5
Inductive [2]	3	5	5
Motor	2	3	3
Lamp	1	1	-
Overload	20	30	30
Rupture	25	40	40
Low level [3]	-	-	-
Time current characteristics [4]	-	-	-

COIL CHARACTERISTICS (Vdc)

CODE	Vac 400 Hz	Vac 50 thru 400 Hz	
	F	J	K
Nominal operating voltage	115	28	115
Maximum operating voltage	122	30	122
Maximum pickup voltage			
- Cold coil at +85° C	90	23	95
- During high temp test at +85° C	95.4	24.6	100
- During continuous current test at +85° C	103.5	25.9	100
Maximum drop-out voltage	30	10	30
Coil current maximum milliAmperes at +25° C	40	100	24

GENERAL CHARACTERISTICS

Temperature range	-70°C to +85°C
Minimum operating cycles (life) at rated load	50,000 [2]
Minimum operating cycles (life) at 25% rated load	200,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1000 Vrms
- Coil to ground	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [5]
Insulation resistance	
- Initial (500 Vdc)	100 M Ω min
- After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibration (A, D and J mounting)	0.12 d.a. / 10 to 70 Hz 30G / 70 to 3000 Hz
Sinusoidal vibration (E mounting in track)	0.06 d.a. / 10 to 57 Hz 10G / 57 to 500 Hz 20G / 500 to 3000 Hz
Sinusoidal vibration (G mounting)	0.12 d.a. / 10 to 57 Hz 20G / 57 to 3000 Hz
Random vibration	
- Applicable specification	MIL-STD-202
- Method	214
- Test condition - A, D and J mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)
- Test condition - E and G mounting (E in track)	1E (0.2G ² /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shock (A, D and J mounting)	200G / 6 ms
Shock (E mounting in track)	50G / 11 ms
Shock (G mounting)	100G / 6 ms
Maximum contact opening time under vibration and shock	10 μs
Operate time at nominal voltage@25°C	12 ms max
Release time at nominal voltage@25°C	20 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

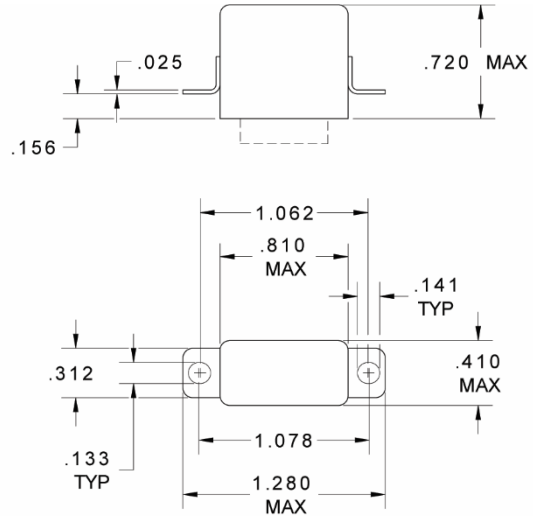
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

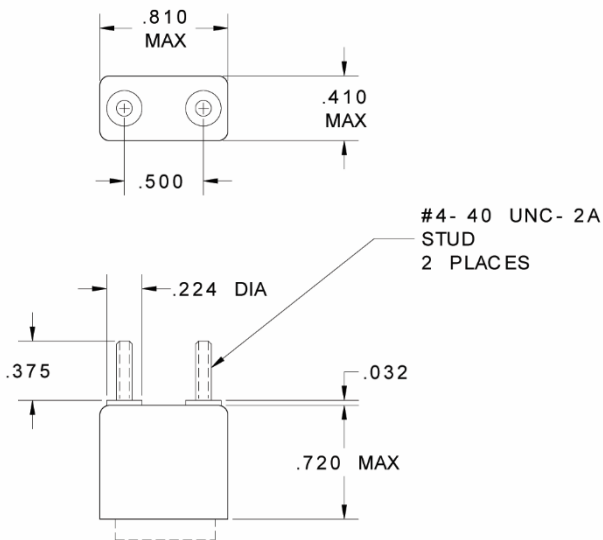
MOUNTING STYLES



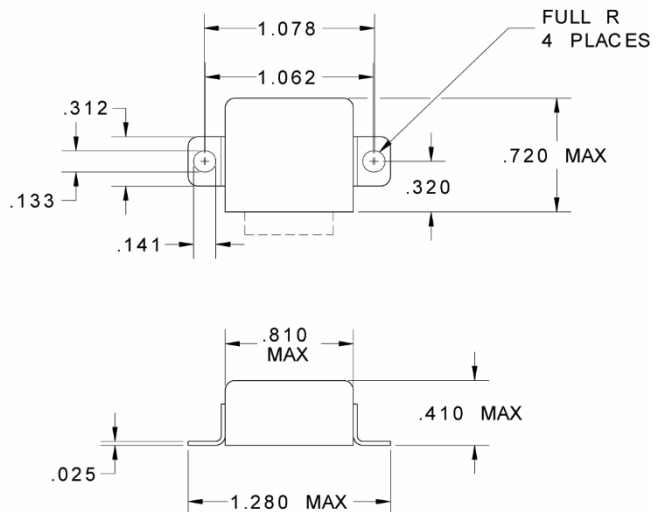
MOUNTING STYLE A



MOUNTING STYLE D



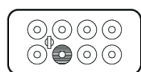
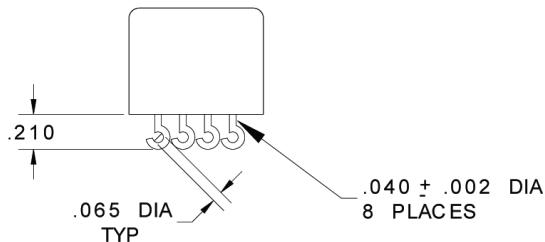
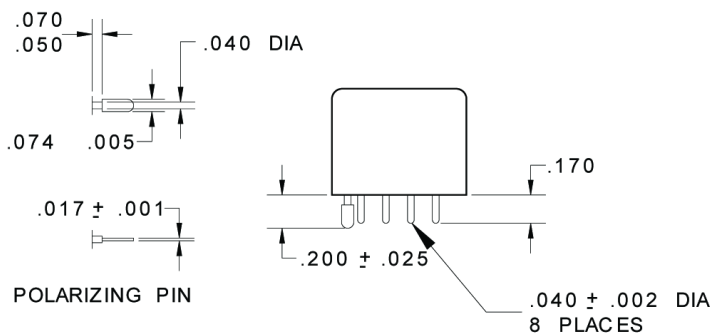
MOUNTING STYLE G



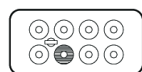
MOUNTING STYLE J

Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

TERMINAL TYPES



COIL J



COIL F, K

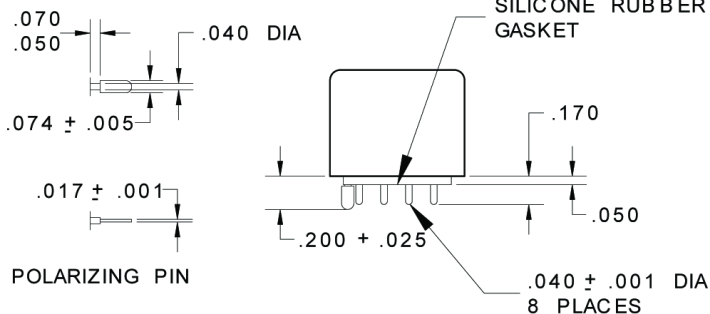
TERMINAL TYPE 1

FINISH:
BODY - LEACH BLUE
TERMINALS - TIN/ LEAD



TERMINAL TYPE 2

FINISH:
BODY - LEACH BLUE
TERMINALS - TIN/ LEAD



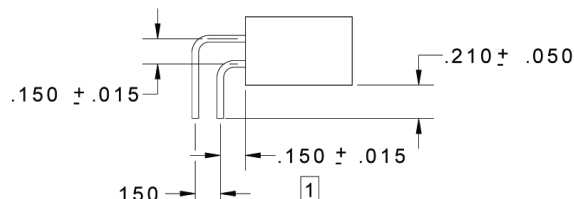
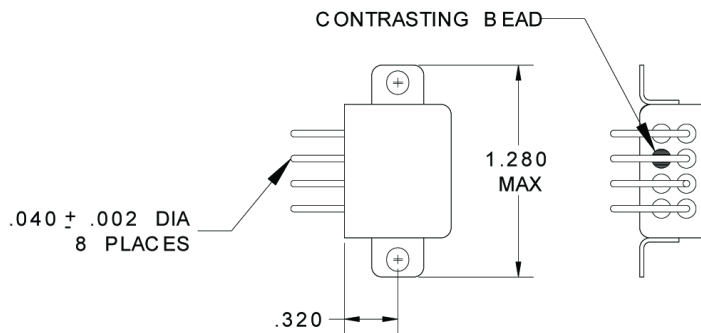
COIL J



COIL F, K

TERMINAL TYPE 4

FINISH:
BODY - LEACH BLUE
TERMINALS - GOLD PLATED
POLARIZING PIN- TIN/ LEAD



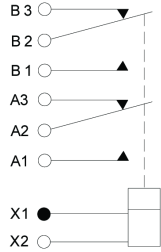
TERMINAL TYPE 7

FINISH:
BODY - LEACH BLUE
TERMINALS - TIN/ LEAD

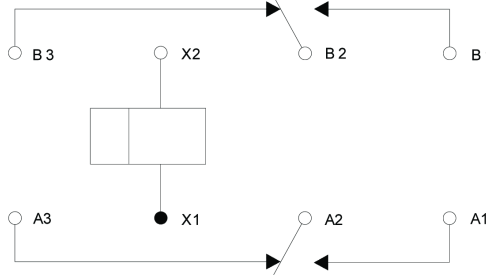
Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

DIAGRAMS

SCHEMATIC DIAGRAM

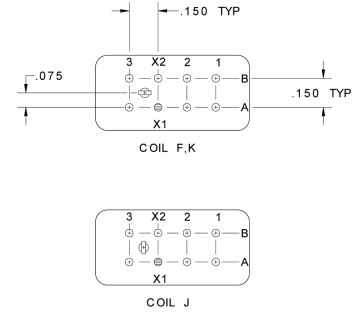


WIRING DIAGRAM COIL POLARITY NOT APPLICABLE

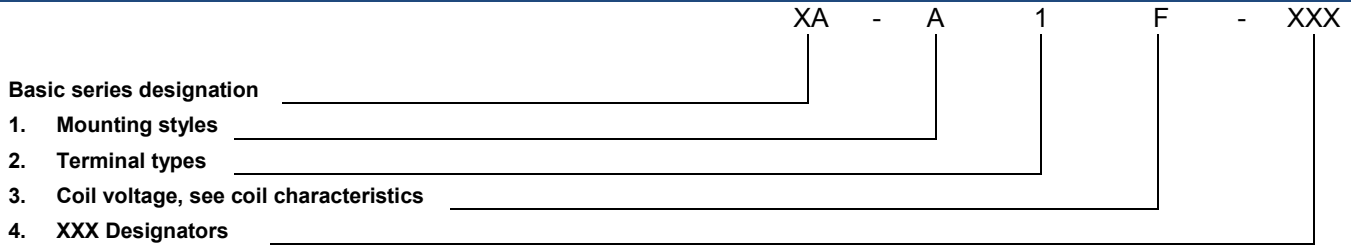


TOL: .XX ±.03; .XXX ±.010

STANDARD TERMINAL LAYOUT



NUMBERING SYSTEM



NOTES

- Standard Intermediate current test applicable.
- DC Inductive load 5,000 cycles, AC Inductive load 10,000 cycles.
- Low level endurance test: contact load of 10 to 50 millivolt, 10 to 50 microamp, 100 Ohm max. contact resistance.
- Refer to MIL-PRF-83536 for details.
- 500 Vrms with silicone rubber gasket compressed, 250 Vrms all other conditions.

For any inquiries, please contact your local sales representative: leachcorp.com