



Applicable sockets:
SO-1063-9033/9034

Application Notes:
002
007
023

• All weld construction

• Contact arrangement

1 PDT

• Qualified to

MIL-PRF-83536/36

PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at

115 Vac 60Hz

• Weight

0.1 lbs. max

• Dimensions

1.01in x 0.51in x 1in

• 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
	115 Vac, 60 Hz, 1Ø (CASE GROUNDED)
Resistive	10
Inductive	10
Motor	8
Lamp	4
Overload	20
Rupture	N/A

COIL CHARACTERISTICS (Vdc/Vac)

CODE	A	B	C	M	N [5]	R [5]	V [5]
Nominal operating voltage	28	12	6	48	28	12	6
Maximum operating voltage	29	14.5	7.3	50	29	14.5	7.3
Maximum pickup voltage							
- Cold coil at +125° C	18	9	4.5	36	18	9	4.5
- During high temp test at +125° C	19.8	9.9	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 $\Omega \pm 10\%$ at +25° C or max coil current (AMPS) at +25° C	320 Ω	80 Ω	20 Ω +20% -10%	1000 Ω	320 Ω	80 Ω	20 Ω +20% -10%

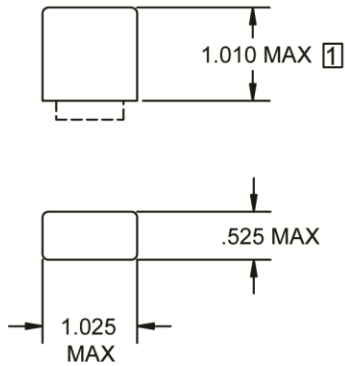
GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	25,000
Minimum operating cycles (life) at 25% rated load	100,000
Dielectric strength at sea level	
- All circuits to ground and circuit to circuit	1250 Vrms
- Coil to ground and coil to coil	1000 Vrms
Dielectric strength at altitude 80,000 ft	500 Vrms [2]
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
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)
- Duration	15 minutes each plane
Shock (A, D and J mounting)	200G / 6 ms
Maximum contact opening time under vibration and shock	10 μ s
Operate time at nominal voltage - Series JS @ 25°C	10 ms max
Release time at nominal voltage - Series JS @ 25°C	10 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

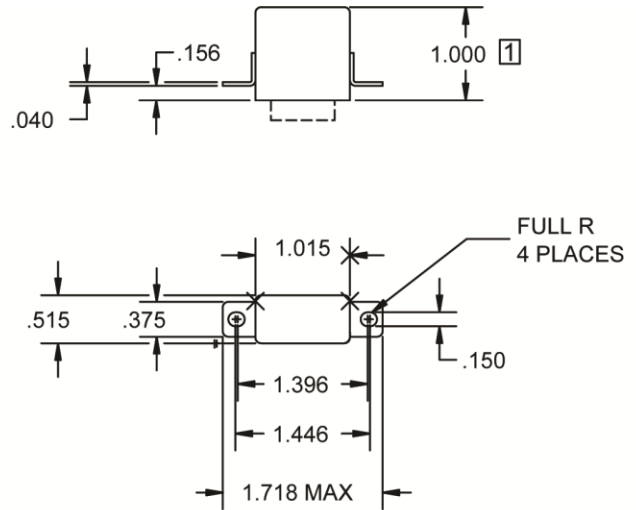
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

Dimensions in inches
 Tolerances, unless otherwise specified
 XX ± .03
 XXX ± .010

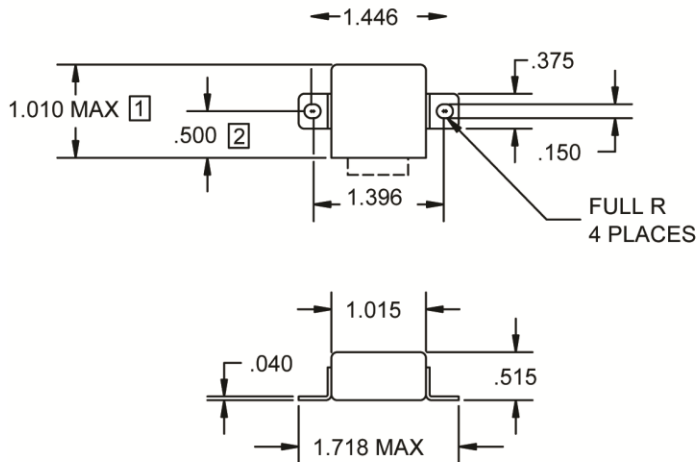
MOUNTING STYLES



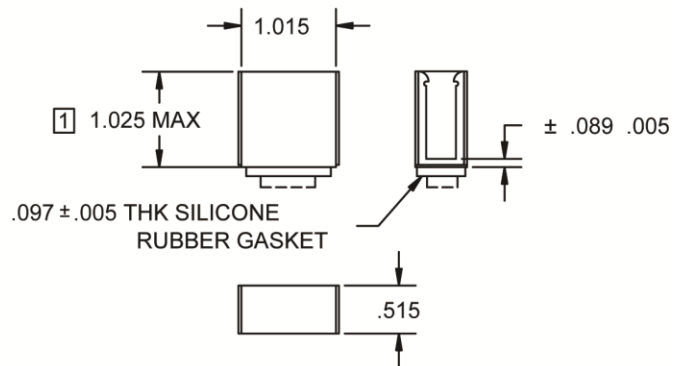
MOUNTING STYLE A



MOUNTING STYLE D



MOUNTING STYLE J



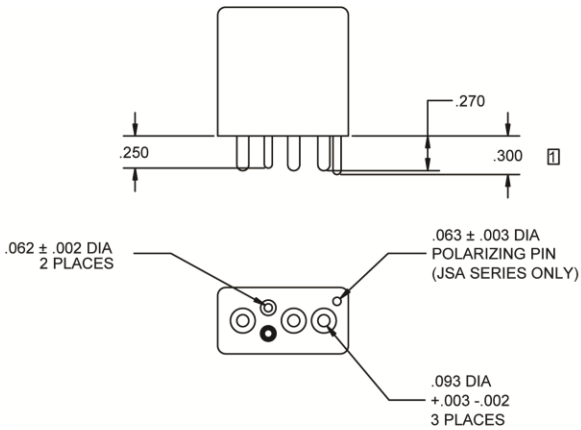
MOUNTING STYLE W

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

- [1] HEIGHT OF N, R & V COIL CODE = 1.250 MAX
- [2] DIMENSIONS FOR N, R & V COIL CODES = .550

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

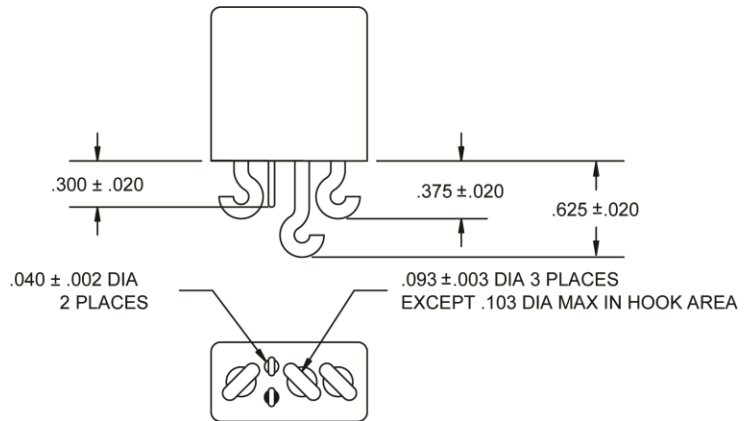
TERMINAL TYPES



CONTACT ROBISON ELECTRONICS, SAN LUIS OBISPO, CA. FOR INSULATOR PART NUMBER.

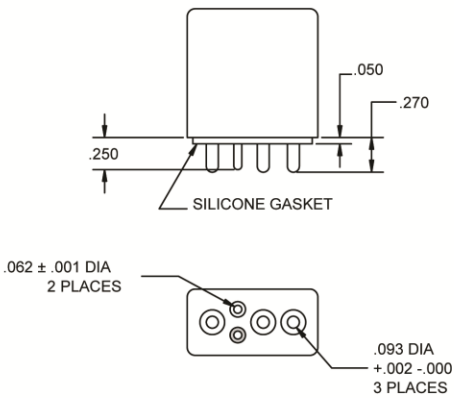
TERMINAL TYPE 1

FINISH:
CASE-PAINTED LEACH BLUE
TERMINALS-TIN/LEAD



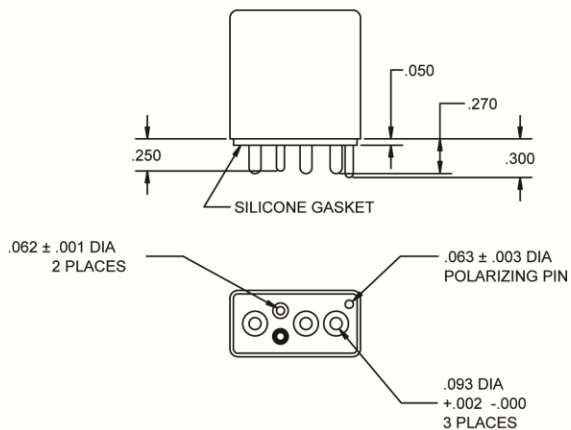
TERMINAL TYPE 2

FINISH:
CASE-PAINTED LEACH BLUE
TERMINALS-TIN/LEAD



TERMINAL TYPE 4 (JS SERIES)

FINISH:
CASE-TIN PLATE
PINS-GOLD PLATE



TERMINAL TYPE 4 (JSA SERIES)

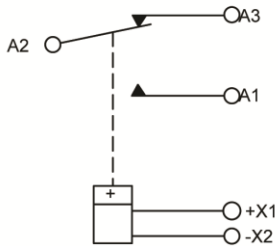
FINISH:
CASE-TIN PLATE
PINS-GOLD PLATE
POLARIZING PIN-TIN/LEAD

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

DIAGRAMS

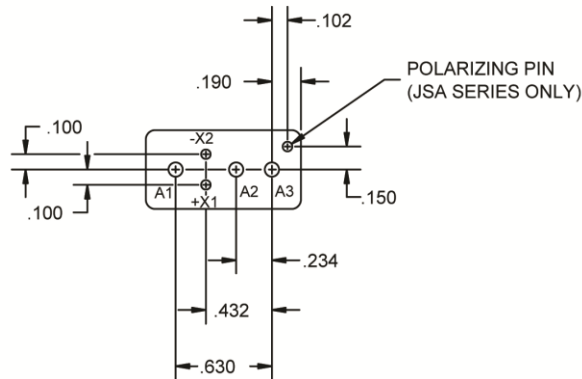
SCHEMATIC DIAGRAM

COIL POLARITY NOT APPLICABLE TO AC VERSIONS



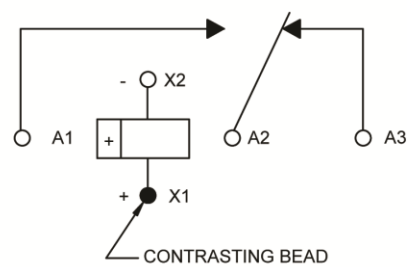
STANDARD TERMINAL LAYOUT

COIL POLARITY NOT APPLICABLE TO AC VERSIONS



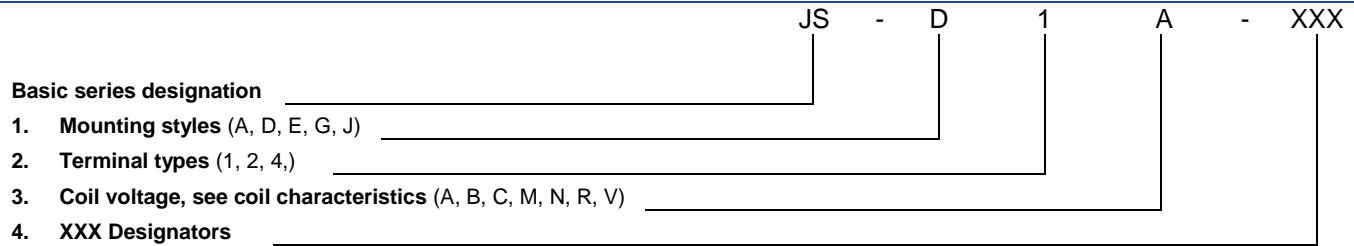
WIRING DIAGRAM

COIL POLARITY NOT APPLICABLE TO AC VERSIONS



STANDARD TOLERANCE: .xx= ±.010
[1] COIL POLARITY NOT APPLICABLE TO AC VERSIONS

NUMBERING SYSTEM



NOTES

- Standard Intermediate current test applicable.
- 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- Applicable military specification – MIL-PRF-83536/36
- "N," "R" & "V" coils have back EMF suppression to 42 volts maximum.
- Relay will not operate, but will not be damaged by application of reverse polarity to coil.

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