JSA SERIES
RELAY – NONLATCH
1PDT, 10 AMP

Applicable sockets:
SO-1063-9033/9034

Application Notes:
002
007
023

- **All weld construction**
- **Contact arrangement** — **1 PDT**
- **Designed to the performance standards of** — **MIL-PRF-83536**

PRINCIPLE TECHNICAL CHARACTERISTICS

- **Contacts rated at** — 115 Vac 60Hz
- **Weight** — 0.1 lbs. max
- **Dimensions** — 1.01in x 0.51in x 1.12in
- **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	E	F	J	K
	(400 Hz)	(400 Hz)	(50/400 Hz)	(50/400 Hz)
Nominal operating voltage	28	115	28	115
Maximum operating voltage	30	122	30	122
Maximum pickup voltage				
- Cold coil at +125° C	22	90	23	95
- During high temp test at +125° C	24.4	95.4	24.6	100
- During continuous current test at +125° C	25.6	103.5	25.9	105
Maximum drop-out voltage	10	30	10	30
Coil resistance Ω ±10% at +25° C or max coil current (AMPS) at +25° C	.240 A	.040 A	.100 A	.024 A

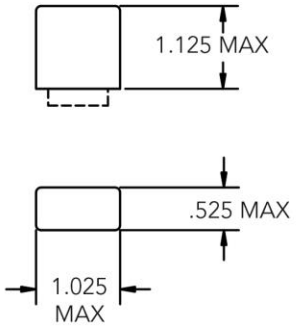
GENERAL CHARACTERISTICS

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 µs
Operate time at nominal voltage - Series JSA @ 25°C	15 ms max
Release time at nominal voltage - Series JSA @ 25°C	50 ms max
Contact make bounce at nominal voltage @ 25°C	1 ms max

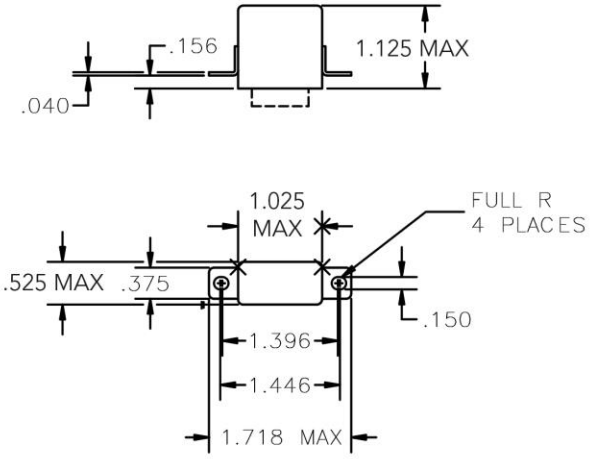
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

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

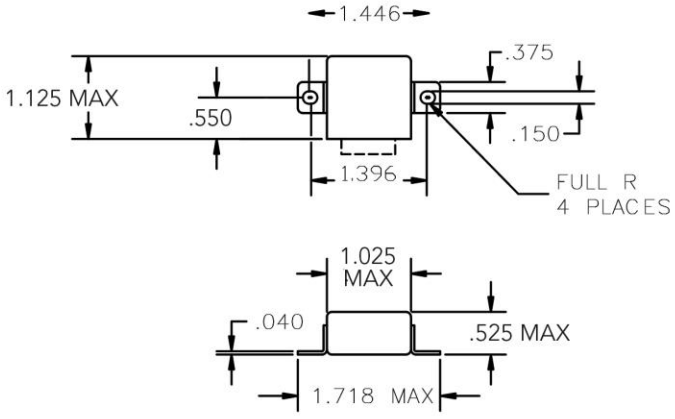
MOUNTING STYLES



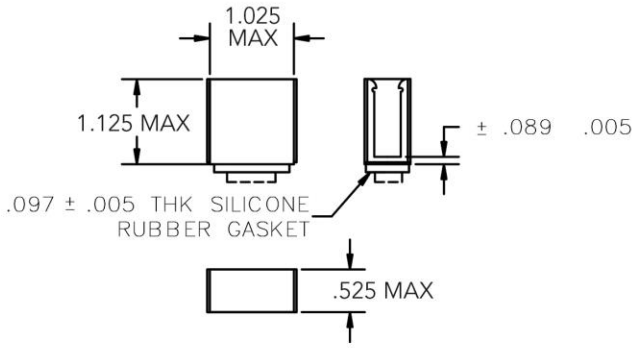
MOUNTING STYLE A



MOUNTING STYLE D



MOUNTING STYLE J

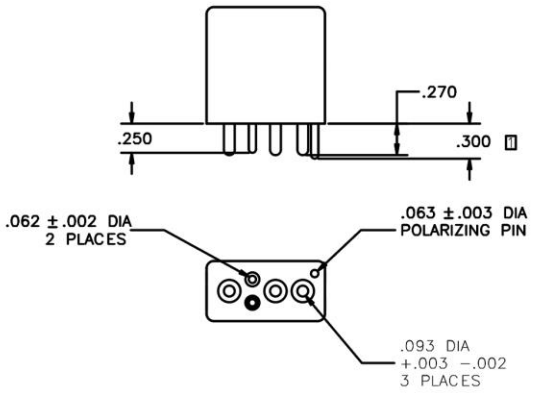


MOUNTING STYLE W

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

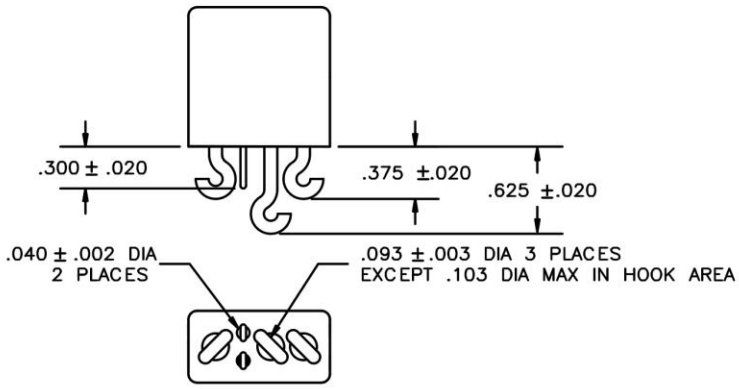
Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

TERMINAL TYPES

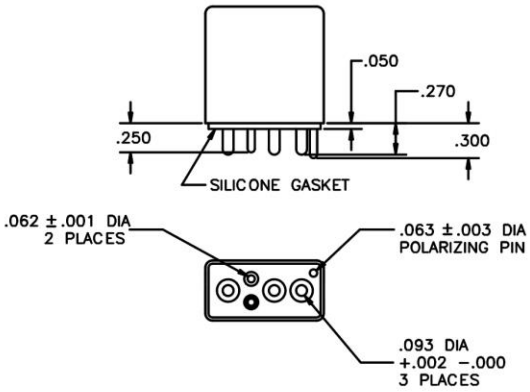


[1] CONTACT ROBISON ELECTRONICS,SAN LUIS OBISPO, CA. FOR INSULATOR PART NUMBER.

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
FINISH:
CASE–PAINTED LEACH BLUE
TERMINALS–GOLD PLATE
POLARIZING PIN–TIN/LEAD

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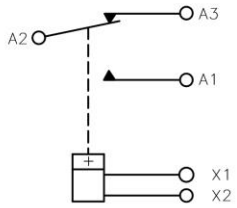
1PDT, 10 AMP

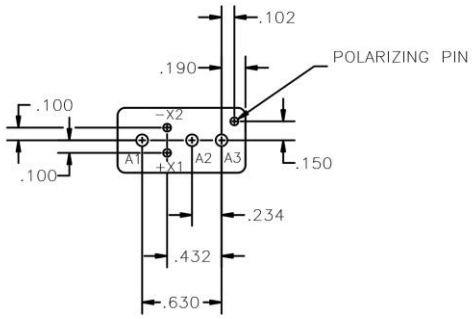
Dimensions in inches
Tolerances, unless otherwise specified, ± 0.03 in

DIAGRAMS

SCHEMATIC DIAGRAM

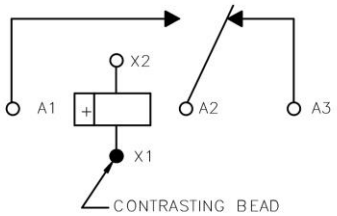


STANDARD TERMINAL LAYOUT



Bottom View

WIRING DIAGRAM



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

NUMBERING SYSTEM

JSA - A 1 E - XXX

Basic series designation

1. **Mounting styles** (A, D, E, J, W)
2. **Terminal types** (1, 2, 4,)
3. **Coil voltage, see coil characteristics** (E, F, J, K)
4. **XXX Designators**

NOTES

1. **Standard Intermediate current test applicable.**
2. **500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.**
3. **Meets the general requirements of but not qualified to MIL-PRF-83536.**
4. **Special models available: dry circuit, established reliability testing,etc.**

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