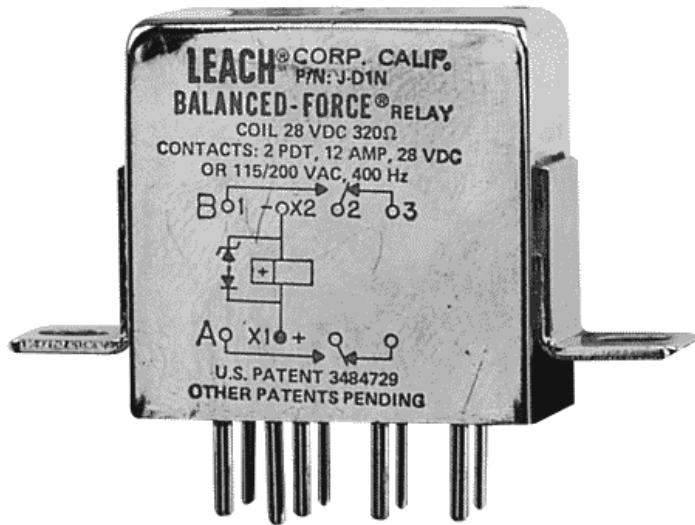


ENGINEERING DATA SHEET

SERIES J

RELAY - NONLATCH
2 PDT, 12 AMPS



APPLICABLE SOCKET:
SO-1049-8309/8987
SO-SSL

All welded construction

Contact arrangement **2 PDT**

Qualified at 10 Amps to **MIL-PRF-83536**

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at **28 Vdc; 115 Vac, 400 Hz, 1 phase and 115/200 Vac, 400 Hz, 3 phases**

Weight **0.088lb max**

Dimensions of case **1.01in x .51in x 1.00in**

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	-
Overload	40	60	60	N/A
Rupture	50	80	80	N/A

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COIL CHARACTERISTICS (Vdc)**SERIES J**

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
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, except types "C" and "V" +20%, -10%	320	80	20	1000	320	80	20

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 Ω min
Insulation resistance - After environmental tests (500 Vdc)	50 M Ω min
Sinusoidal vibrations (A, D and J mounting)	0.12DA / 10 to 70 Hz 30 g / 70 to 3000 Hz
Sinusoidal vibrations (G mounting)	0.12DA / 10 to 57 Hz 20g /57 to 3000 Hz
Random vibrations	
- 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 - G Mounting (E in Track)	1E (0.2g ² /Hz, 50 to 2000 Hz)
- Duration	15 minutes each plane
Shocks (A, D and J mounting)	200 g / 6 ms
Shocks (G mounting)	100 g / 6 ms
Maximum contact opening time under vibrations and shocks	10 μ s
Operate time at nominal voltage@25°C	10 ms max
Release time at nominal voltage@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 [6]
Weight maximum	0.088lb

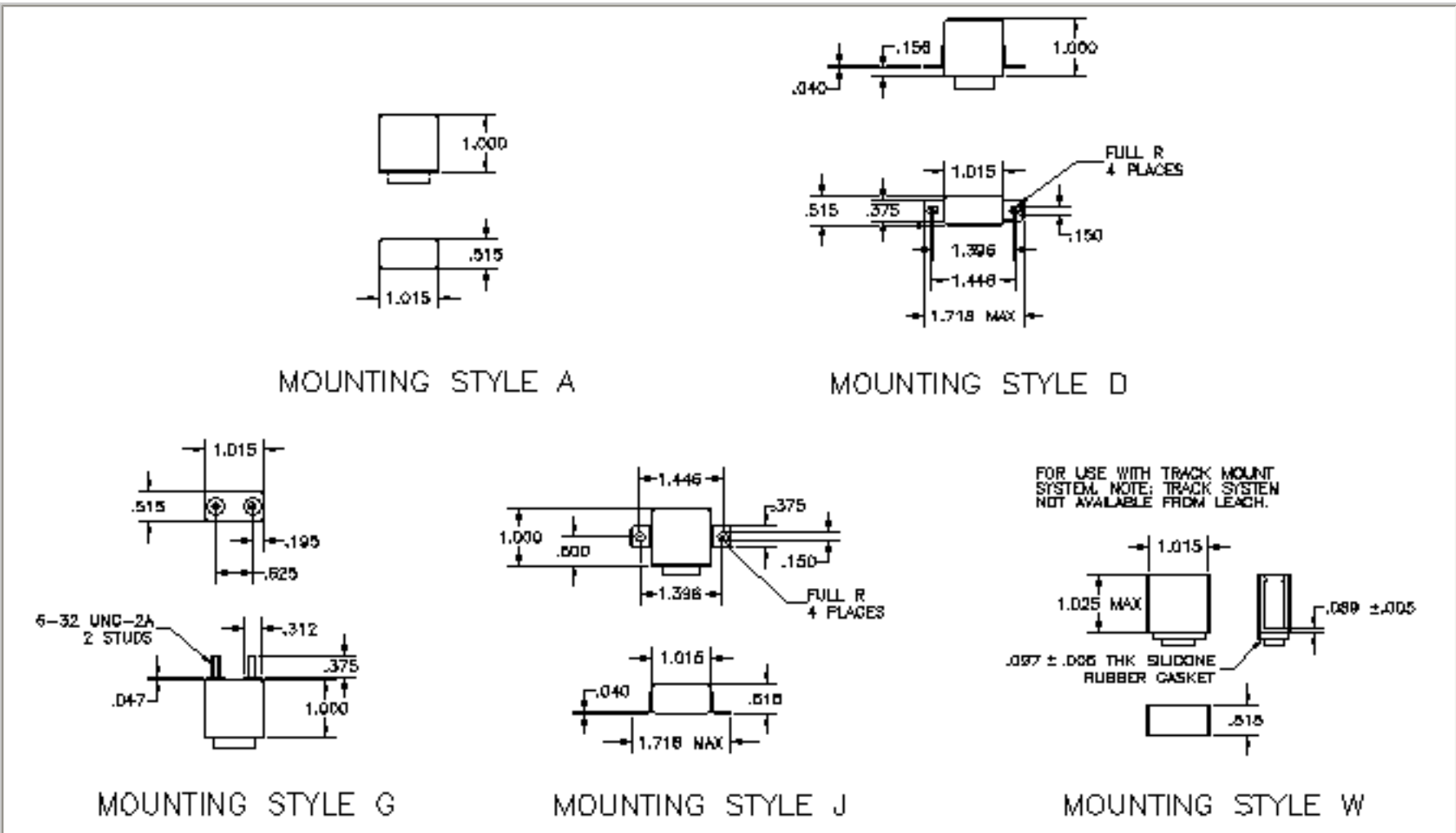
Unless otherwise noted, the specified temperature range applies to all relay characteristics.

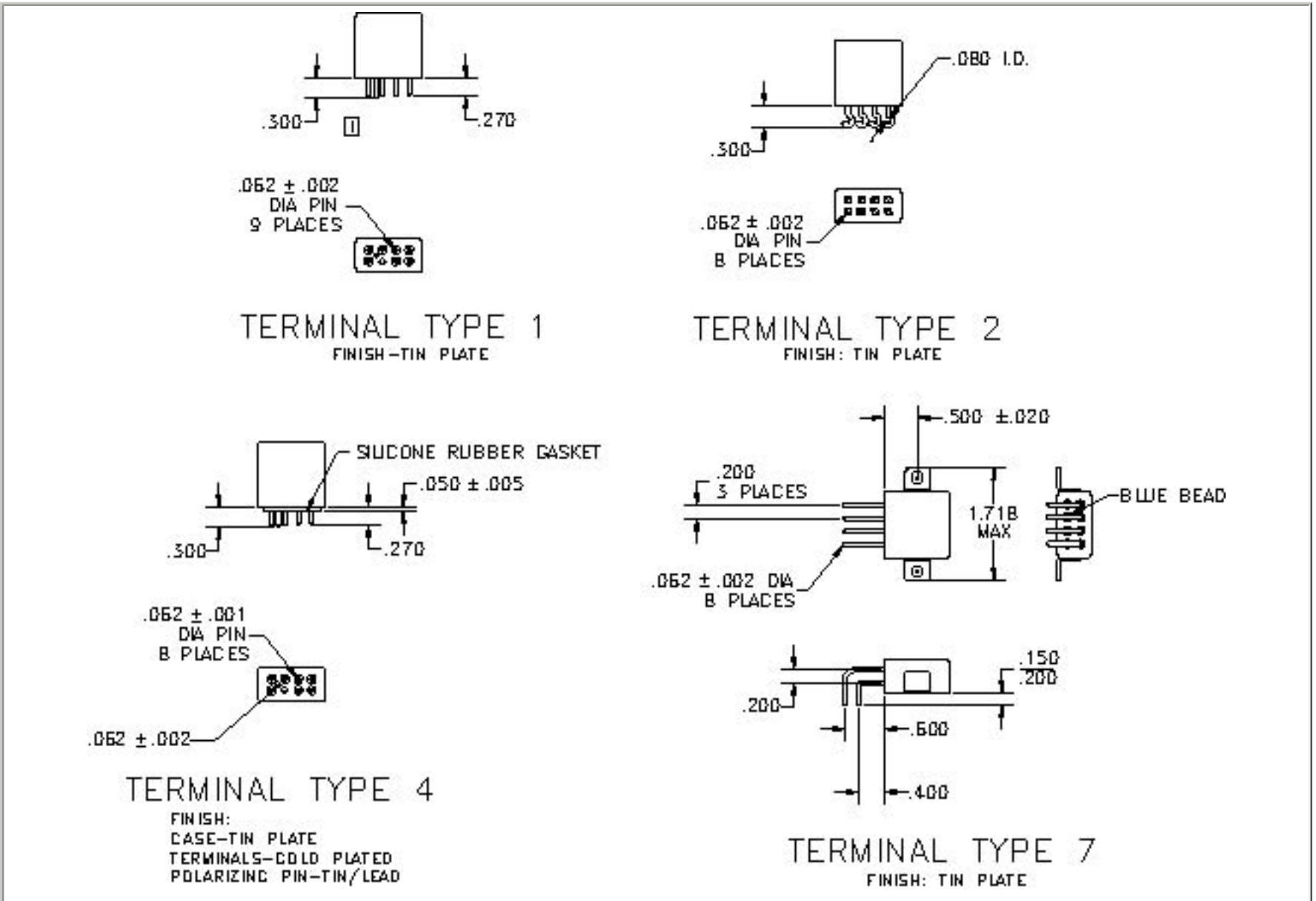
- [1] Standard Intermediate current test applicable.
- [2] 60 Hz load life, 10,000 cycles.
- [3] Inductive load life, 20,000 cycles.
- [4] "N" R & V coils have back EMF suppression to 42 volts maximum.
- [5] 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- [6] Applicable to suppressed coils only.
- 7. Applicable military specification: MIL-PRF-83536.
- 8. Special models available: Dry circuit, established reliability testing, etc.
- 9. Time current relay characteristics per MIL-PRF-83536.
- 10. Relay will not operate, but will not be damaged by application of reverse polarity to coil.

NUMBERING SYSTEM

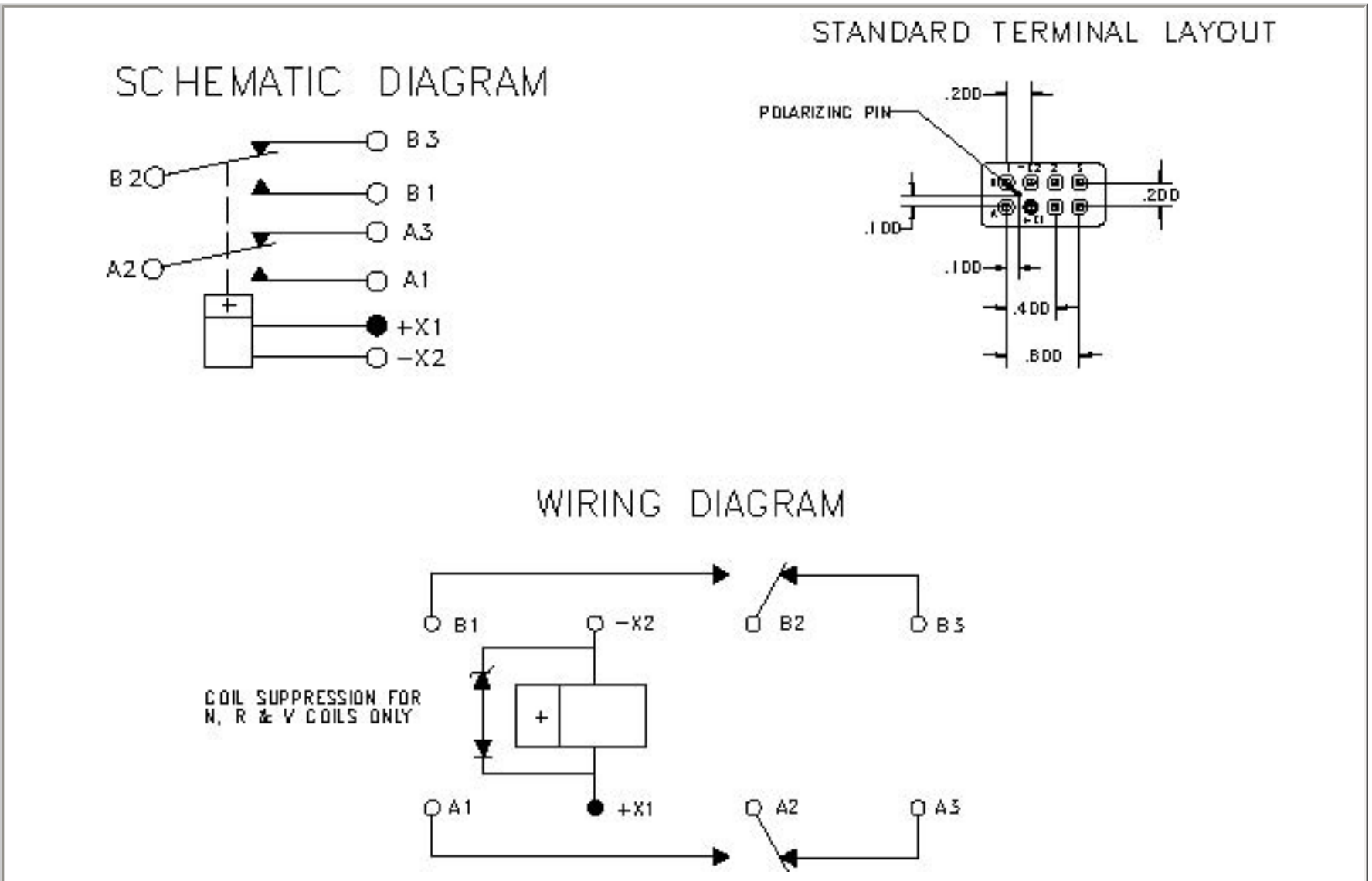
	J	-	A	1	A
Basic series designation_____					
1-Mounting Style (A,D,G,J)_____					
2-Terminal Types (1,2,4)_____					
3-Coil Voltage see coil characteristics (A,B,C,M,N,R or V)_____					

MOUNTING STYLES





Standard Tolerance: ± .010 1. Insulator P/N RC-RP800060-5 or RC-RP920060-1 available from Robison Electronics, San Luis Obispo, CA.



STANDARD TOL: ±.010

SO-1049-8309/8987

ENGINEERING DATA SHEET

RELAY SOCKET
12 AMP



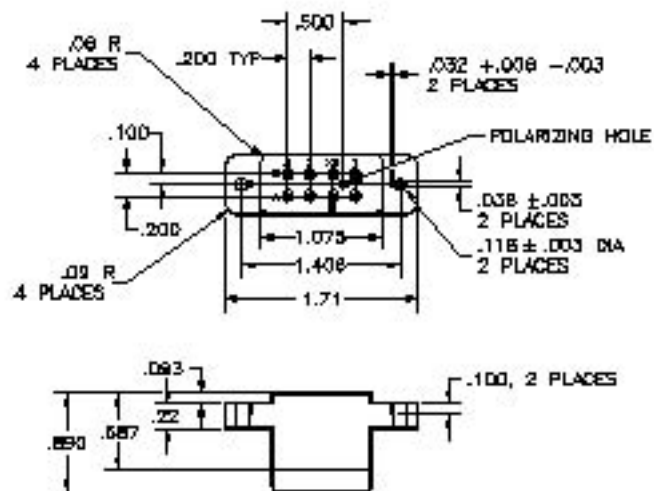
BASIC SOCKET SERIES DESIGNATION FOR:

Series J

DESIGNED TO THE STANDARDS AND REQUIREMENTS OF:

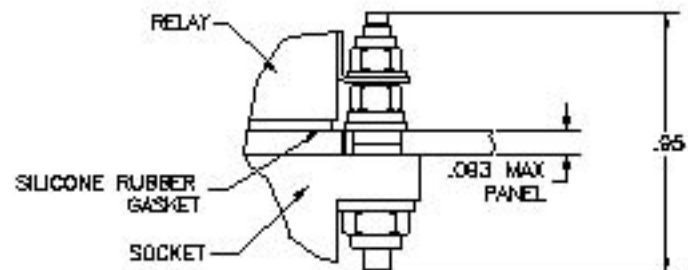
MIL-S-12883/41

SOCKET DRAWING

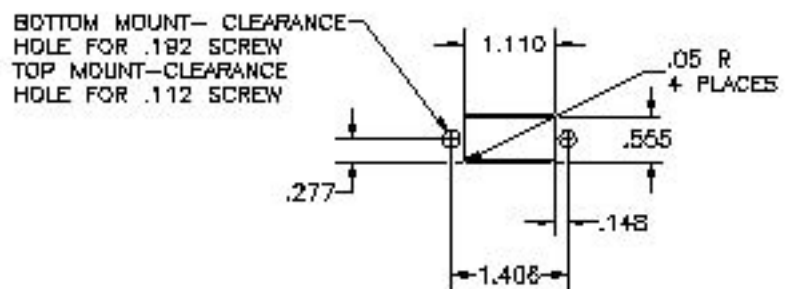


HARDWARE MOUNTING

MOUNTING DETAIL



MOUNTING DIMENSIONS



GENERAL CHARACTERISTICS

1. Supplied with mounting hardware and No. 16 contacts, No. 16 crimp (see socket drawing illustration SO-1049-8309); No. 16 contacts, No. 20 crimp for SO-1049-8987 (not illustrated)

2. Standard tolerances	.xx ±.01; xxx ±.005
3. Weight	.073 lb. max
4. Temperature range	-70° C to +125° C

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ENGINEERING DATA SHEET

SO-SSL

SOCKET FOR 2 OR 4 POLE
10 AMP

 <p>2 POLE</p>  <p>4 POLE</p>	<p>SNAP AND LOCK SOCKET SERIES DESIGNATION FOR:</p> <p>SERIES J, JA, K, KA, KL, TDX</p> <p>DESIGNED TO THE STANDARDS AND REQUIREMENTS OF:</p> <p>2-pole, 10A relays MIL-PRF-12883/41 Mates with M83536, M83726 and MS27709 4-pole, 10A relays MIL-PRF-12883/40 Mates with M83536</p> <p>FEATURES Low profile Bottom panel mount Snaps into panel Other models available</p> <p>MATERIALS Socket body Polyetherimide per MIL-P-46184 Grommet Silicone rubber per ZZ-R-765 Hardware Stainless Steel Contacts Copper alloy, hard gold plated per MIL-G-45204 Contact retainers Beryllium copper</p>
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GENERAL CHARACTERISTICS

Insulation resistance	1000 M Ω min.
Dielectric withstanding voltage	1500 VRMS sea level; 500 VRMS at 80,000 ft
Weight	15.3g max.
Temperature range	-65°C to +125°C
Vibration	MIL-STD-202, Method 204, Test Condition G
Shock	MIL-STD-202, Method 213, Test Condition C

This socket is designed to snap and lock into a panel to reduce hardware requirement and mounting time. Contacts and hardware are provided disassembled in a plastic bag. Standard tolerances are .xx=±.01; .xxx=±.005 unless otherwise noted.

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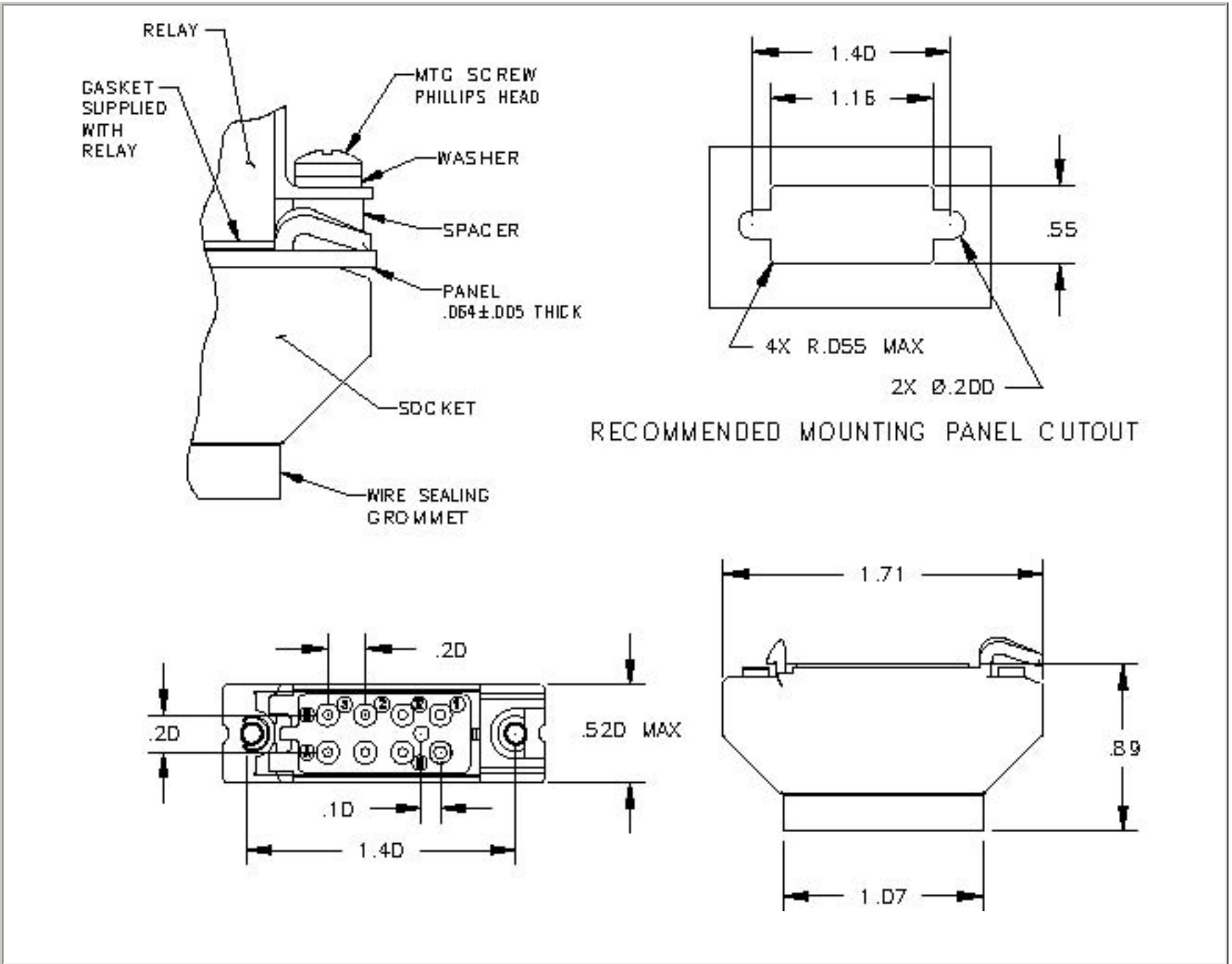
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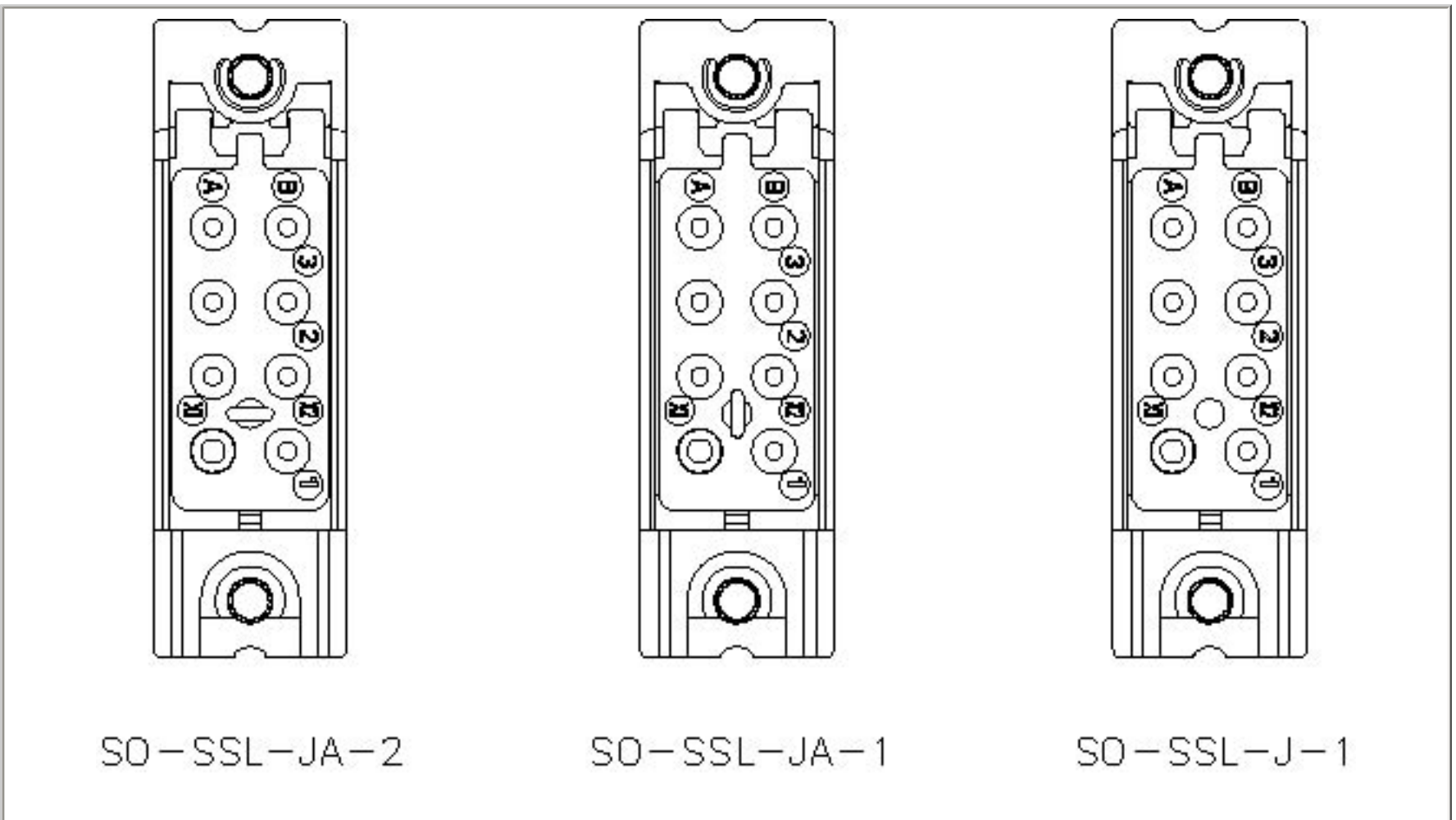
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SOCKET DIMENSIONS

SO-SSL (2 POLE)

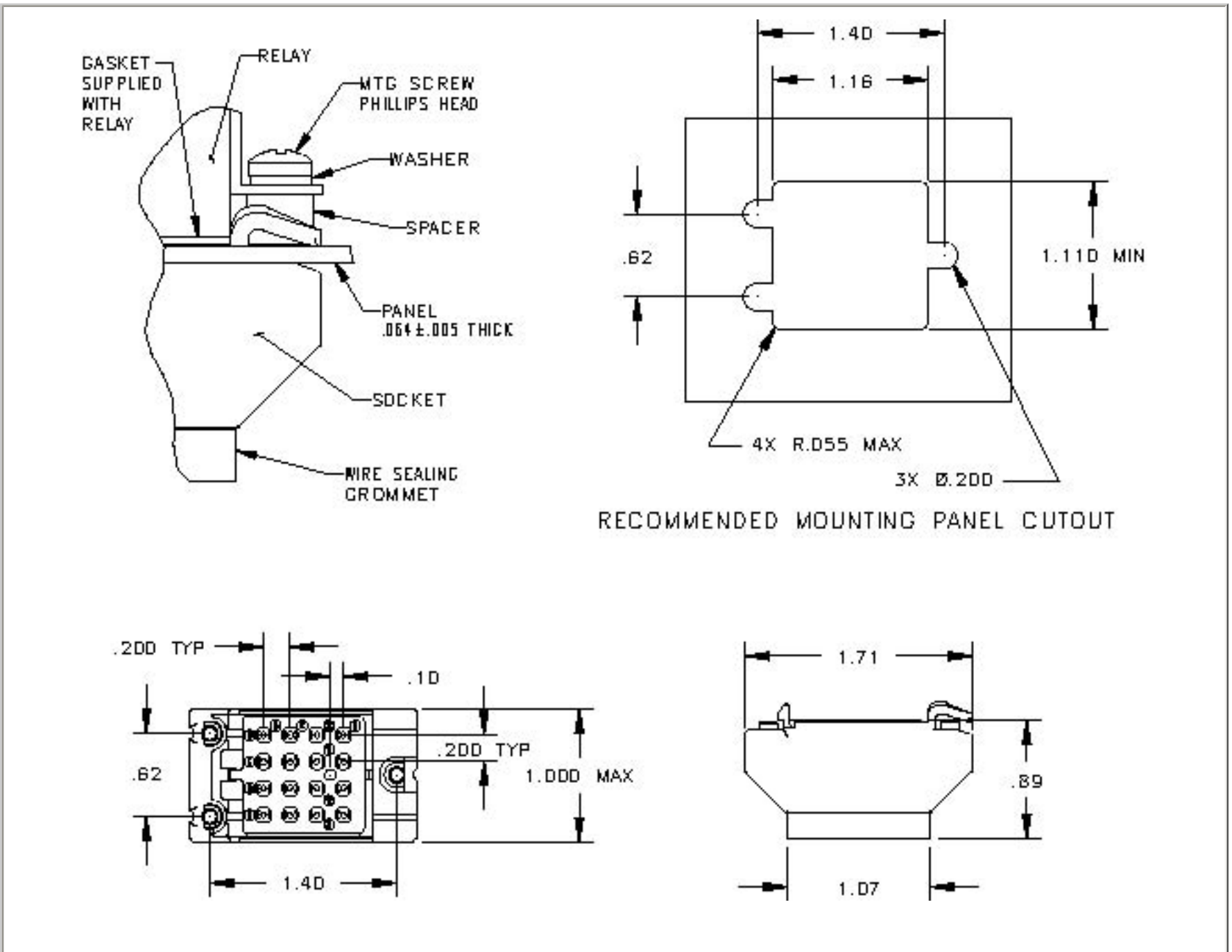


TERMINAL LAYOUT

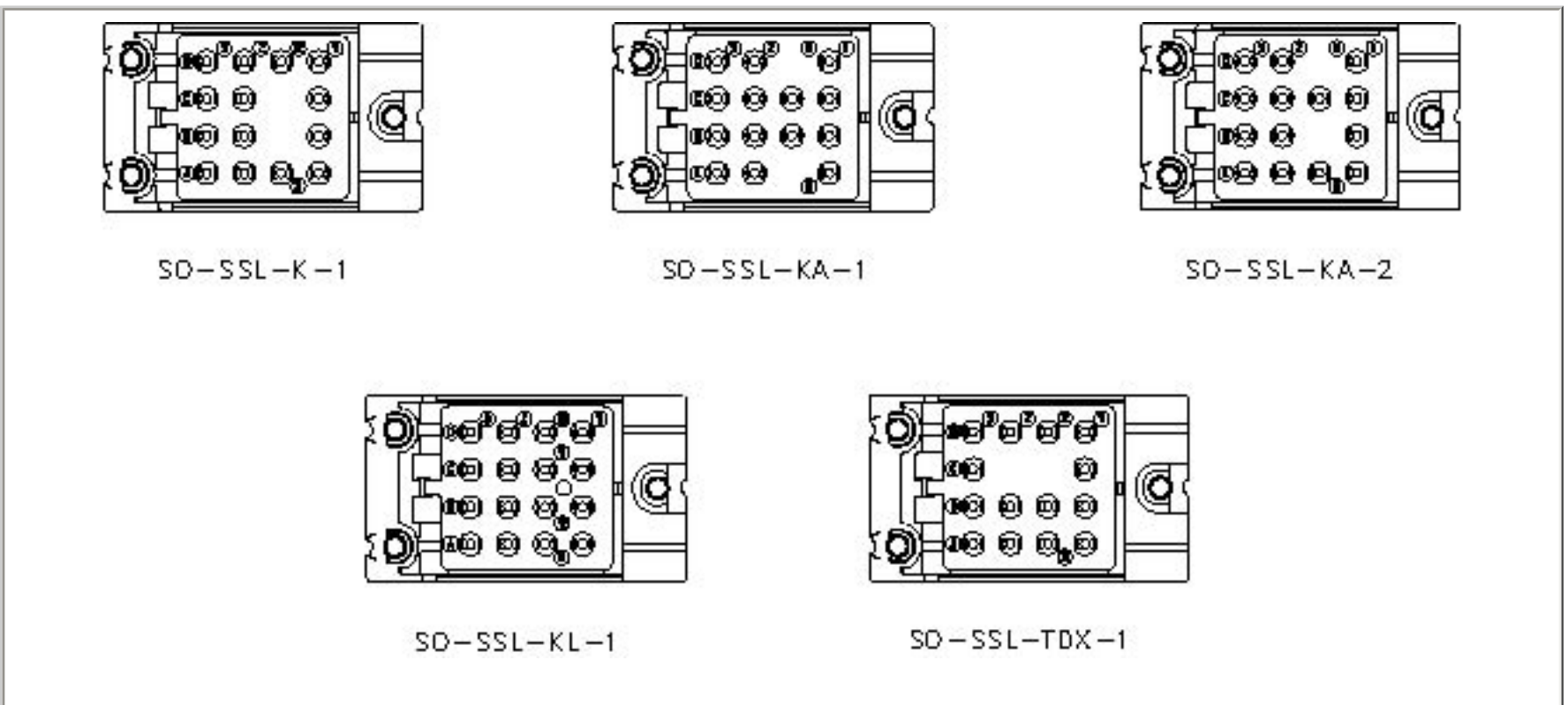


SOCKET DIMENSIONS

SO-SSL (4 POLE)



TERMINAL LAYOUT



	SO	SSL	KA	001
1-Basic socket designation_____				
2-Body style (short snap lock)_____				
3-Mating relay (J, JA, K, KA, KL, TDX)_____				
4-Polarization (see terminal layout)_____				
5-Hardware (0=less hardware, 1=with hardware)_____				
6-Contacts (0=less contacts, 1=with contacts)_____				