REVISIONS			
SYMBOL	**DESCRIPTION**	**DATE**	**APPROVAL**
A	RN A059 Incorporated	5/03/93	S.A.N.
B	RN A-143 Incorporated	8/17/05	Z.N.G.
	ORIGINAL SIGNATURES ON FILE		

SHEET REVISION STATUS

SH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REV	B	B	B	B	B															
SH	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REV																				

ORIGINATOR: T. Perry/Paramax.	DATE 6/23/92	FSC: 5945
APPROVED: S. Archer-Davies/Paramax	6/23/92	Relays, Electromagnetic, Hermetically Sealed, 2PDT (2C), Permanent Magnet Drive, 10 AMP, All Welded, DC Coils
CODE 311 APPROVAL: P. Jones/GSFC	6/30/92	
CODE 562 SUPERVISORY APPROVAL: G.P. Kramer, Jr./GSFC	7/20/92	
ADDITIONAL APPROVAL:		**S-311-P-754/06**

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND 20771

CAGE CODE: 25306

RELAY, ELECTROMAGNETIC, HERMETICALLY SEALED, 2PDT (2C), PERMANENT MAGNET DRIVE, 10 AMPERE, ALL WELDED

The requirements for procuring the relays described herein shall consist of this specification and the current revision of GSFC S-311-P-754.

Table I. Part Numbers and Characteristics

GSFC Part Number	Similar to MIL Part Number	Terminal Type	Coil Voltage (nominal@ +25°C)	Pickup Voltage (max.across temp range)	Dropout Voltage (min. across temp range)	DC Coil Resistance (min.)
G311P754/06-001	M83536/9-023	Solder Hook	28.0 Vdc	18.0 Vdc	1.5 Vdc	280Ω
G311P754/06-002	M83536/9-024	Socket Pin	28.0 Vdc	18.0 Vdc	1.5 Vdc	280Ω
G311P754/06-003	M83536/9-022	Solder Pin	28.0 Vdc	18.0 Vdc	1.5 Vdc	280Ω

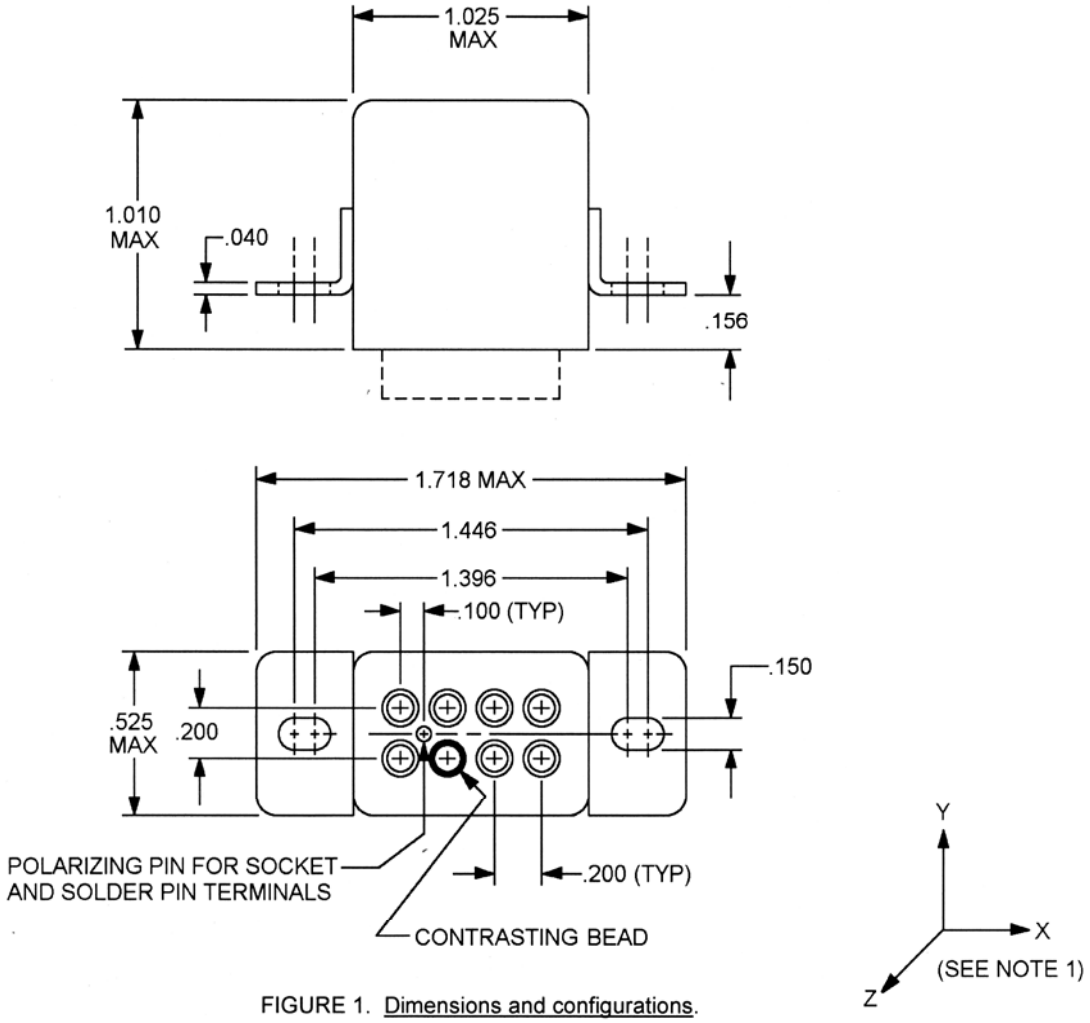
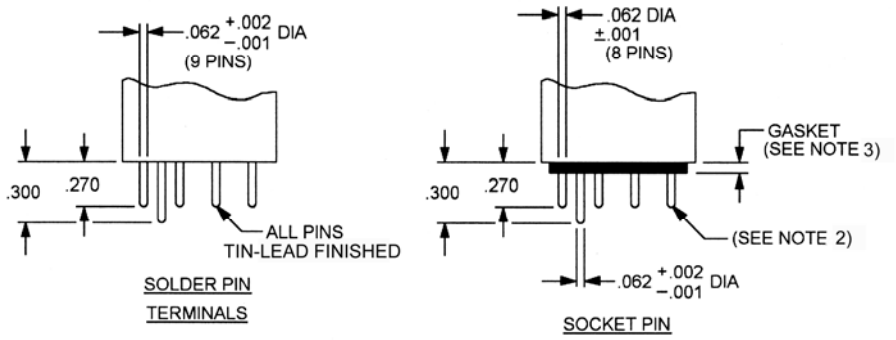
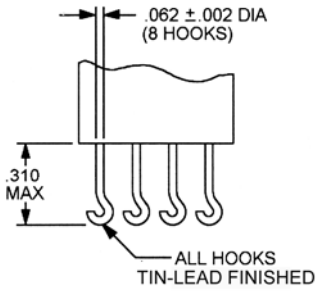
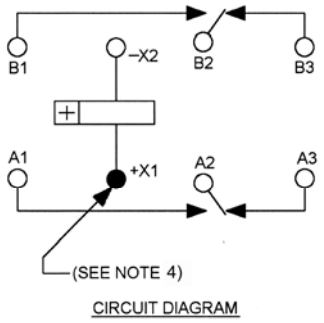


FIGURE 1. Dimensions and configurations.







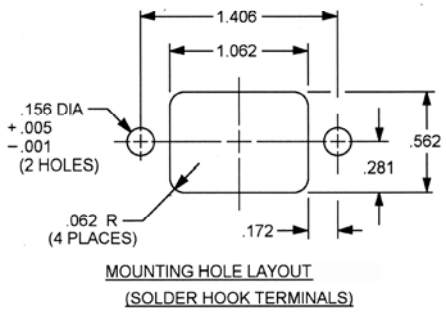


FIGURE 1. Dimensions and configurations - Continued.

Notes:

1. Plane of critical motion for vibration and shock is Y-axis.
2. Socket pin terminals shall provide the operational, environmental, and interface characteristics to enable a reliable interconnect to gold-plated contacts. Terminals, except the polarizing pin, shall be gold plated. One system for gold plating that may be used is ASTM B488, type 3, class 1.25 with a nickel underplate of 50 to 150 microinches thick. The gold plating system shall enable the product to meet the performance requirements of this specification.
3. Gaskets shall provide a reliable seal between the relay and mating socket that will meet the environmental, operational, and interface requirements of the relay with the mating socket. The gasket shall have shore hardness 15 to 35, thickness .050 ± .005". Gasket material according to SAW-AMS3332 has been considered acceptable provided it meets the outgassing requirements in GSFC S-311-P-754., para. 3.2.2.
4. Indicated terminals shall be identified by a contrasting bead.
5. The finish on solder hook or solder pin terminals shall contain a minimum of 3% lead.
6. Relays must be provided with unpainted enclosures.
7. There shall be affixed to the relay a suitable legible circuit diagram that identifies each terminal location.

REQUIREMENTS:

Operating Temperature Range: -70°C to +125°C

Other: All requirements (contact ratings, life test requirements, environmental data, etc.) shall be as specified in MIL-PRF-83536/9 except as detailed or modified herein.

Electrical measurements

Insulation resistance	see MIL-PRF-83536/9
Dielectric strength	see MIL-PRF-83536/9
Coil resistance	see Table I
Pickup voltage	see Table I
Dropout voltage	see Table I
Contact voltage drop	see MIL-PRF-83536/9
Operate time	10 ms max.
Release time	10 ms max.
Bounce time	1 ms max.
Coil transient suppression	not applicable
Neutral screen	not applicable

Vibration

Sinusoidal	30 g (10 – 3000 Hz)
Random	not applicable

REQUIREMENTS (continued)

High temperature soak…….……. not applicable
High temperature run-in……. applicable at +85°C
Low temperature run-in…….…. not applicable
Room temperature run-in…….……..…. not applicable

Seal
Fine leak test……..…. 1 X 10^{-8} cc/sec max.
Gross leak test……..….... applicable

Custodian:

Code 562
QPLD Administrator
NASA Goddard Space Flight Center
Greenbelt, MD 20771