REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
—	RELEASED	7/21/92	

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	--	--	--																	
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 T. Perry/Paramax	DATE 6/23/92	FSC: 5945
APPROVED S. Archer-Davies/Paramax	6/23/92	Relays, Electromagnetic, Hermetically Sealed, 4PDT (4C), Low Level to 2 Amperes (0.150 inch Terminal Spacing)
CODE 311 APPROVAL P. Jones/GSFC	6/30/92	
CODE 311 SUPERVISORY APVL G. P. Kramer, Jr./GSFC	7/20/92	
ADDITIONAL APPROVAL		S-311-P-754/09

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

CAGE CODE: 25306

GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, 4PDT (4C), LOW LEVEL TO 2 AMPERES (0.150 INCH TERMINAL SPACING), PLUG-IN

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)	Pickup Voltage (max.)	Dropout Voltage (min.)	DC Coil Resistance (ohms)
G311P754/09-001	M39016/14-005	Printed Wiring	6.0 Vdc	2.7 Vdc	0.3 Vdc	28 ± 10%
G311P754/09-002	M39016/14-007	Printed Wiring	12.0 Vdc	5.4 Vdc	0.6 Vdc	115 ± 10%
G311P754/09-003	M39016/14-002	Printed Wiring	26.5 Vdc	13.5 Vdc	1.5 Vdc	720 ± 10%

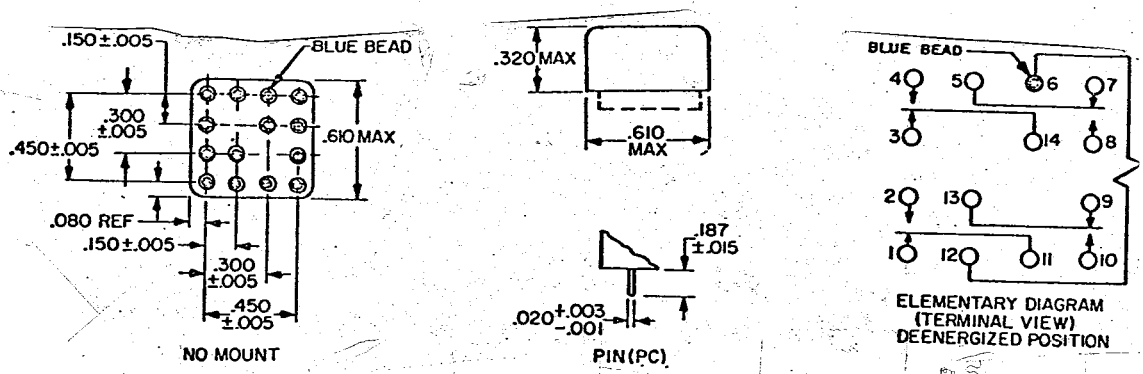

Figure 1. Configuration and circuit diagram.

Notes:

1. Relays must be provided with unpainted enclosures.
2. Terminal numbers in circuit diagram are for reference only.

REQUIREMENTS:

Operating Temperature Range: -65°C to +125°C

Other: All requirements (contact ratings, life test requirements, environmental data, etc.) shall be as specified in MIL-R-39016/14 except as detailed or modified herein.

Seal
- Fine leak test ..... 1×10^{-8} cc/sec max.
- Gross leak test ..... not applicable

Electrical measurements
- Insulation resistance ..... 10,000 Mohm min.
- Dielectric strength ..... 500 V_{rms}, 60 Hz
- Coil resistance ..... see Table I
- Pickup voltage ..... see Table I
- Dropout voltage ..... see Table I
- Contact resistance ..... 50 milliohms max.
- Operate time ..... 4 ms max.
- Release time ..... 4 ms max.
- Bounce time ..... 2 ms max.
- Coil transient suppression ..... not applicable
- Neutral screen ..... not applicable

Vibration
- Sinusoidal ..... 20 g (10 - 2000 Hz)
- Random ..... not applicable

High temperature soak ..... applicable
High temperature run-in ..... not applicable
Low temperature run-in ..... applicable
Room temperature run-in ..... applicable

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