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 7/17/92	FSC: 5945
APPROVED S. Archer-Davies/Paramax	7/17/92	Relays, Electromagnetic, Hermetically Sealed, High Vibration, 2PDT (2C) Low Level to 1 Ampere (TO-5 Enclosure)
CODE 311 APPROVAL P. Jones/GSFC	7-20-92	
CODE 311 SUPERVISORY APVL G. P. Kramer, Jr. /GSFC	7/20/92	
ADDITIONAL APPROVAL		S-311-P-754/05

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

CAGE CODE: 25306

GSFC DETAIL SPECIFICATION

RELAYS, ELECTROMAGNETIC, HERMETICALLY SEALED, HIGH VIBRATION, 2PDT (2C), LOW LEVEL TO 1 AMPERE (TO-5 ENCLOSURE)

The requirements for procuring the relays described herein shall consist of this specification and the current revision of GSFC S-311-P-754 except failure rate level "M" is not applicable.

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)
G311P754/05-001	N/A	Wire Leads	6.0 Vdc	5.5 Vdc	0.18 Vdc	70 ± 10%
G311P754/05-002	N/A	Wire Leads	9.0 Vdc	8.2 Vdc	0.35 Vdc	155 ± 10%
G311P754/05-003	N/A	Wire Leads	12.0 Vdc	11.0 Vdc	0.41 Vdc	235 ± 10%
G311P754/05-004	N/A	Wire Leads	18.0 Vdc	16.5 Vdc	0.59 Vdc	610 ± 10%
G311P754/05-005	N/A	Wire Leads	26.5 Vdc	22.0 Vdc	0.89 Vdc	1130 ± 10%

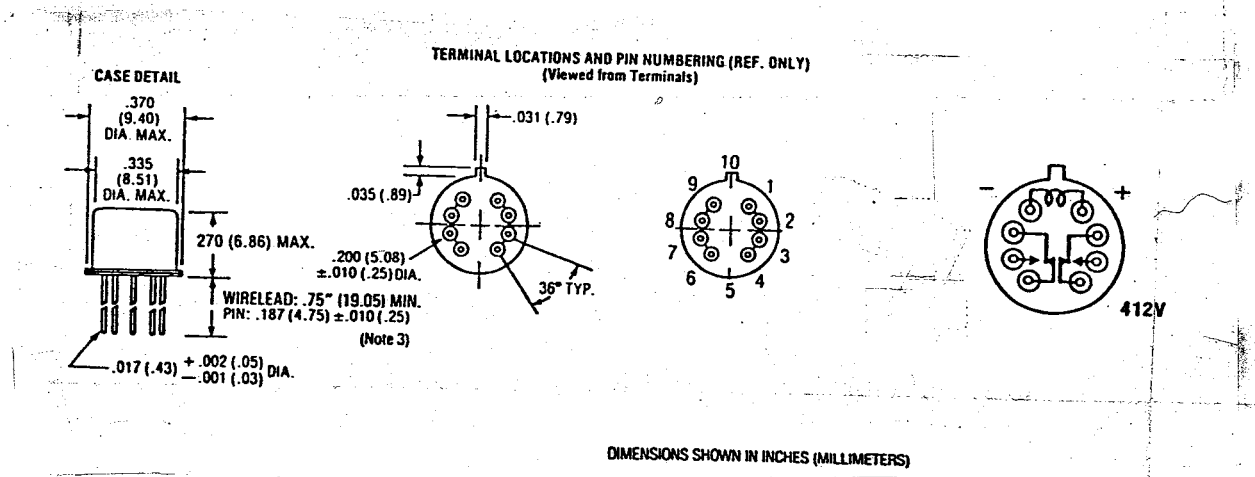

Figure 1. Configuration and circuit diagram.

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

Contact Load Ratings:
Resistive - 1 amp/28 Vdc
Inductive - 200 mA/28 Vdc (320 mH)
Lamp - 100 mA/28 Vdc

Coil Operating Power: 620 mw typ. at rated voltage, +25°C

Other Requirements: Consult the Parts Branch Specialist.

Seal	
Fine leak test	1 X 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 - initial	100 milliohms max.
- after life	200 milliohms max.
Operate time	2 ms max.
Release time	2 ms max.
Bounce time	1.5 ms max.
Coil transient suppression	not applicable
Neutral screen	not applicable
Vibration	
Sinusoidal	50 g (10 - 3000 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 x 10^{-8} cc/sec max.
Gross leak test	applicable