



1/5 SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT, .150 GRID

Series
2G-7400

Product Description

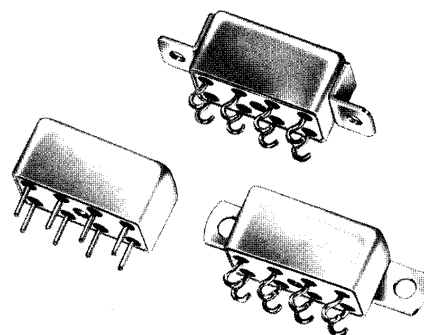
A complete series of 1/5 crystal can hermetically sealed relays manufactured in compliance to the referenced Military specification. The leading relay design in military and commercial application is represented in Hi-G 2G-7400 series relay. The product advanced design provides superior performance in the environmental and operational requirements of today's sophisticated equipment. The following construction features ensure the highest reliability in extreme environments:

- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- Low level to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating
- Frame, armature designs and force / mass ratio provides exceptional immunity to shock and vibration.

Series Type

- 2G-7400 2 form C, DPDT

COMPLIANT TO
M39016/13



Environmental and Physical Specifications

Temperature (Ambient)	- 65°C to + 125°C
Shock	100 g, 6 ms.
Vibration (sinusoidal)	20 g, 10 to 3000 Hz
Acceleration	50 g
Sealing	All welded, Hermetic
Weight	0,17 oz. (5,29 grams) max.

Electrical Characteristics (over the Temperature range. Unless otherwise noted)

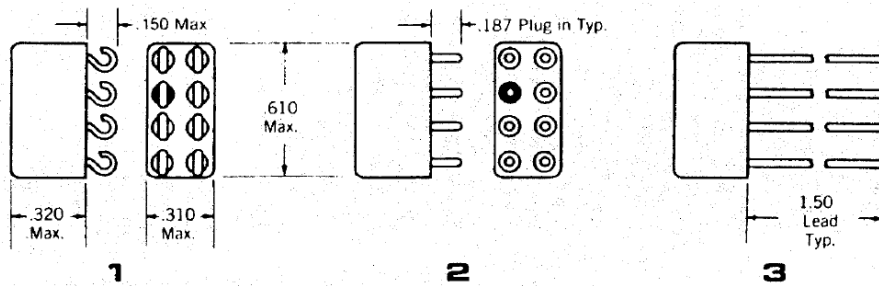
Coil Data	See Typical Characteristics chart			
Contact Rating	Type Load	Contact Load		Cycles min.
		High Level	Low Level	
(Note: All ratings with grounded case)	Resistive	2 A / 28 Vdc 0,3 A / 115 Vac, 60 and 400 Hz	10 to 50 μ A / 10 to 50 mV N/A	100.000 100.000
	Overload	4 A / 28 Vdc	N/A	100
	Inductive	1 A / 28 Vdc (200 mH)	N/A	100.000
	Lamp	0,1 A / 28 Vdc	N/A	100.000
Contact Resistance	0,05 Ω max. initial, 0,1 Ω max. after life high level, 0,15 Ω max. after low level			
Operate Time	4,0 ms. Max.			
Release Time	4,0 ms. Max.			
Contact Bounce	2,0 msec. max.			
Dielectric Strength	750 Vrms min., 60 Hz, all points, 500 Vrms min. between open contacts and coil to case, at sea level			
Insulation Resistance	10.000 M Ω min. all points at 500 Vdc			
Sensitivity	135 milliwatts at 25 °C			



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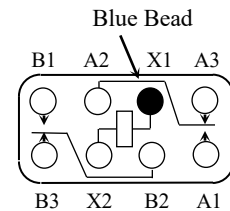
Terminal Styles



Note:

- Dimensions are shown in inches (millimetres)
- Terminal spacing is .150. Terminal diameter is .020

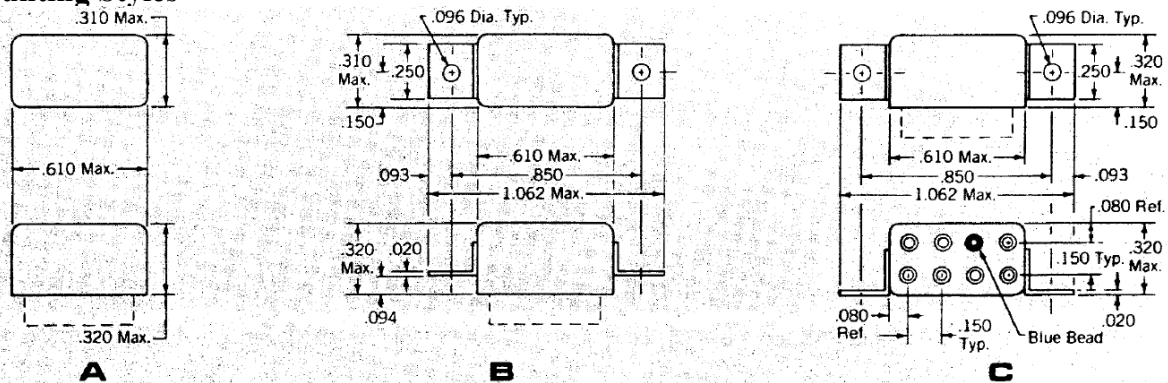
Schematic Diagram



Note:

- Schematic are viewed from terminals

Mounting Styles



Note:

- Dimensions are shown in inches

Electrical Characteristics (over the Temperature range. Unless otherwise noted)

Voltage Code	Coil Voltage (Vdc)		DC Coil Resistance (ohms $\pm 10\%$ @ 25°C)	Max. Pick-Up Voltage (Vdc)		Min. Drop-out Voltage (Vdc)	
	Nom.	Max.		25°C	125°C	25°C	125°C
105	5	7	44	2,4	3,3	0,26	0,16
106	6	8	56	2,7	3,8	0,30	0,18
109	9	12	140	4,4	6,0	0,50	0,30
112	12	16	210	5,4	7,4	0,60	0,36
118	18	24	650	9,5	12,8	1,00	0,60
126	26,5	35	1350	13,5	18,0	1,50	0,90
136	36	46	2245	17,1	23,0	1,90	1,20



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Products Cross Reference

M39016 /13 Dash #	Hi-G Header Style	Hi-G Enclosure Style	Voltage Code	M39016 /13 Dash #	Hi-G Header Style	Hi-G Enclosure Style	Voltage Code
055	2	A	106	087	1	B	136
056	2	A	112	088	3	B	136
057	2	A	126	089	1	A	106
058	1	C	106	090	1	A	112
059	1	C	112	091	1	A	126
060	1	C	126	092	2	C	105
061	3	C	106	093	1	C	105
062	3	C	112	094	3	C	105
063	3	C	126	095	2	B	105
064	1	B	106	096	1	B	105
065	1	B	112	097	3	B	105
066	1	B	126	098	1	A	105
067	3	B	106	099	2	C	106
068	3	B	112	100	2	C	109
069	3	B	126	101	1	C	109
070	2	B	106	102	3	C	109
071	2	B	112	103	2	B	109
072	2	B	126	104	1	B	109
073	2	A	105	105	3	B	109
074	3	A	106	106	1	A	109
075	2	A	109	107	2	C	112
076	3	A	112	108	2	C	118
077	2	A	118	109	1	C	118
078	3	A	126	110	3	C	118
079	3	A	105	111	2	B	118
080	3	A	109	112	1	B	118
081	3	A	118	113	3	B	118
082	2	A	136	114	1	A	118
083	3	A	136	115	2	C	126
084	1	C	136	116	2	C	136
085	3	C	136	117	1	A	136
086	2	B	136				

How to Order, (Part Numbering System)

2G-7400 - 057 A

Series Type

Reliability levels A or B

Dash number (see cross reference table)

Note:

- Relays compliant to M39016/13 are designated 2G-7400 and applicable dash numbers coincide with Hi-G dash numbers

Failure rate reliability level

Military Suffix	Hi-G Suffix	FR % / 10000 cycles
L	A	3,0
M	B	1,0



NOTE

HI-G RELAYS S.R.L
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