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HALF SIZE CRYSTAL CAN RELAY
2 AMPERE DPDT

Series I 2K

Product Description

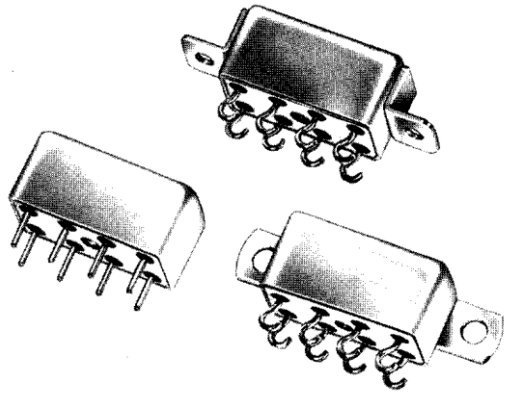
A complete series of half crystal can hermetically sealed relays manufactured and qualified to the referenced Military specification.
The leading relay design in military and commercial application is represented in Hi-G Italia I2K series relay. The product advanced design provides superior performance in the environmental and operational requirements of today's sophisticated equipment.
Volume production coupled with continuing qualification programs, ensure product consistency and the highest degree of reliability.
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

- **I2K** 2 form C, DPDT

MIL-PRF-39016/6



Environmental and Physical Specifications

Temperature (Ambient)	- 65°C to + 125°C
Shock	100 g, 6 ms.
Vibration (sinusoidal)	30 g, 10 to 3000 Hz
Acceleration	50 g
Sealing	All welded, Hermetic
Weight	0,46 oz. (13,0 grams) max.

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

Coil Data	See Typical Characteristics chart			
Contact Rating	**Contact Load**	**Type 1**	**Type 2**	**Cycles min.**
(Note: All ratings with grounded case)	Low Level	10 to 50 µA / 10 to 50 mV	10 to 50 µA / 10 to 50 mV	1.000.000
	Resistive	2 A / 28 Vdc	2 A / 28 Vdc	100.000
		0,3 A / 115 Vac, 60 and 400 Hz	0,1 A / 115 Vac, 60 and 400 Hz	100.000
	Overload	4 A / 28 Vdc	4 A / 28 Vdc	100
	Inductive	0,75 A / 28 Vdc (200 mH)	0,50 A / 28 Vdc (200 mH)	100.000
	Lamp	0,16 A / 28 Vdc	0,16 A / 28 Vdc	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. at 25°C			
Release Time	4,0 ms. max. at 25°C			
Contact Bounce	2,0 ms. max. at 25°C			
Contact Stabilisation Time	2,0 ms. max. at 25°C			
Dielectric Strength	1.000 Vrms min., 60 Hz, all points, 500 Vrms min. between open contacts and coil to case, at sea level		350 Vrms min., 60 Hz, all points at 70.000 ft.	
Insulation Resistance	10.000 MΩ min. all points at 500 Vdc			
Intercontact Capacitance	2,5 pF between contacts			
Sensitivity	250 mW at pick-up, 1 W typical at nominal rated coil voltage, at 25 °C			

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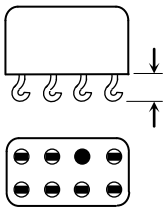
Series I 2K

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

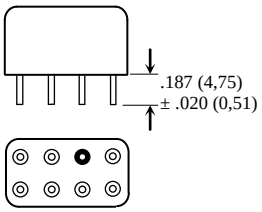
Terminal Codes				Mounting Styles	Load Rating	Coil Voltage (Vdc)		DC Coil Resistance (Ω)	Pick-up (Vdc)	Drop-out (Vdc)	
Wire Lead (PI)	Solder Lug (L)	Wire Lead (SP)	Wire Lead (W)			Max.	Nom.	±10% at 25°C	Max	Max.	Min.
141	104	105	106	B	Type 1	32,0	26,5	700	18,0	14,0	1,00
	107	125	108	C							
	128			D							
142	129	109	110	None							
	149			E							
241	204	205	206	B	Type 2						
	207	225	208	C							
	228			D							
242	229	209	210	None							
	249			E							
143	111	112	113	B	Type 1	15,0	12,0	160	9,0	5,8	0,50
	114	126	115	C							
144	130	116	117	None							
	150			E							
243	211	212	213	B	Type 2						
	214	226	215	C							
244	230	216	217	None							
	250			E							
145	118	119	120	B	Type 1	7,5	6,0	40	4,5	2,9	0,25
	121	127	122	C							
146	131	123	124	None							
	151			E							
245	218	219	220	B	Type 2						
	221	227	222	C							
246	231	223	224	None							
	251			E							
147	132	133	134	B	Type 1	6,0	5,0	27	3,8	2,4	0,21
	135	136	137	C							
148	138	139	140	None							
	152			E							
247	232	233	234	B	Type 2						
	235	236	237	C							
248	238	239	240	None							
	252			E							

Terminal Styles

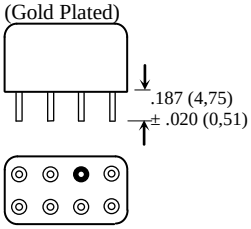
L — Solder Lug



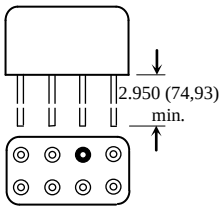
SP — Wire Lead Solder Pin



PI — Wire Lead Plug in (Gold Plated)

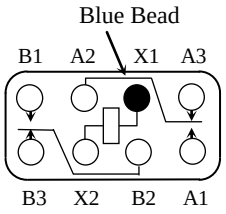


W — Wire Lead



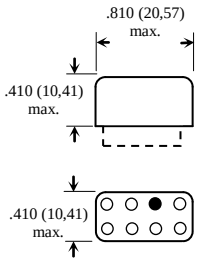
Note:
- Dimensions are shown in inches (millimetres).
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) + .003 (0,08) - .002 (0,05)

Schematic Diagram

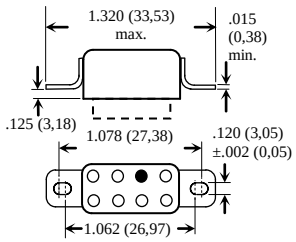


Note:
- Schematic is viewed from terminals

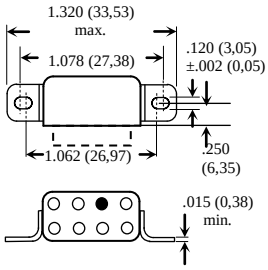
Mounting Styles



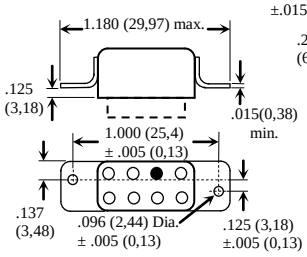
NONE



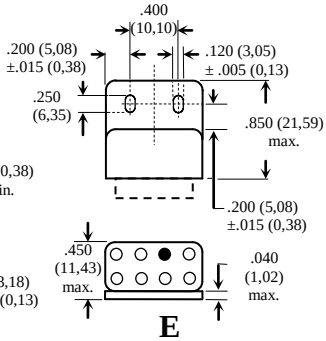
B



C



D



E

Note: Dimensions are shown in inches (millimetres)

Note:
1 Failure Rate (Reliability Level)

Military Suffix	Hi-G Suffix	FR % / 10.000 cycles
L	A	3,0
M	B	1,0

How to Order, (Part Numbering System)

I 2K - 104 A

- Series
- Terminal Code
- Reliability levels A or B (note 1)

High Generation S.r.l.
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