GENERAL INFORMATION
SELECTOR CHART

Series	Series Types	Enclosure	Contacts		Nominal Coil Voltage or Current	Operating Power at P.I. (mW)	Applicable Specification Approvals			
							MILITARY		CECC	
			Arrangement	Rating			Mil-PRF-39016/	Mil-PRF-28776/	16101-	16207-
MA	MA	TO-5	DPDT	1A / 28 Vdc	5…30,0 Vdc	130	9			
	MA-D				5…26,5 Vdc		15			
	MA-DD					150	20			
	MA-T					130		1		
MA2		TO-5	DPDT	1A / 28 Vdc	5…30,0 Vdc	130			003	
MCA		TO-5	DPDT	2A / 28 Vdc	5…26,5 Vdc	150				
MS	MS	TO-5	DPDT	1A / 28 Vdc	5…48,0 Vdc	60	11			
	MS-D						16			
	MS-DD					70	21			
	MS-T					60		3		
MS2		TO-5	DPDT	1A / 28 Vdc	5…48,0 Vdc	60			004	
1MA	1MA	TO-5	SPDT	1A / 28 Vdc	5…26,5 Vdc	100	7			
	1MA-D						23			
	1MA-DD					120	24			
	1MA-T					100		5		
1MA1		TO-5	SPDT	1A / 28 Vdc	5…26,5 Vdc	100			005	
1MS	1MS	TO-5	SPDT	1A / 28 Vdc	5…40,0 Vdc	50	10			
	1MS-D						25			
	1MS-DD					40	26			
	1MS-T					50		4		
1MS1		TO-5	SPDT	1A / 28 Vdc	5…40,0 Vdc	50			006	
MGA	MGA	CUBIC .100GRID	DPDT	1A / 28 Vdc	5…26,5 Vdc	130	17			
	MGA-D						18			
	MGA-DD					150	19			
MGAE	MGAE	CUBIC .100GRID	DPDT	1A / 28 Vdc	5…28,0 Vdc	130				801
	MGAE-D									
	MGAE-DD					150				
MGA2	MGA2 / D2	CUBIC	DPDT	1A / 28 Vdc	5…28,0 Vdc	140				007
MGS	MGS	CUBIC .100GRID	DPDT	1A / 28 Vdc	5…48,0 Vdc	60	41			
	MGS-D						42			
	MGS-DD						43			
MGSE	MGSE	CUBIC .100GRID	DPDT	1A / 28 Vdc	5…48,0 Vdc	60				802
	MGSE-D									
	MGSE-DD									
MGS2	MGS2 / D2	CUBIC	DPDT	1A / 28 Vdc	5…48,0 Vdc	60				008
I2K		1/2 CC	DPDT	2A / 28 Vdc	5…26,5 Vdc	250	6			
2K		1/2 CC	DPDT	2A / 28 Vdc	5…48,0 Vdc	250				
2K6600		1/2 CC	DPDT	2A / 28 Vdc	5…48,0 Vdc	250			007,014,021	
							MILITARY Compliance			
							Mil-R-39016/	Mil-R-5757/		
2K7940		1/2 CC	DPDT	2A/ 28 Vdc	6…26,5 Vdc	250	22			
KA	2KA	1/2 CC	DPDT	2A / 28 Vdc	5…48,0 Vdc	100				
HA	2HA	1/2 CC	DPDT	5A / 28 Vdc	5…48,0 Vdc	300				
B	2B	CC	DPDT	2A / 28 Vdc	6…76,0 Vdc	250				
	2BR		DPDT		26,5..115 Vac	370				
2B6660		CC	DPDT	3A / 28 Vdc	6…76,0 Vdc	250			008	
2B7506		CC	DPDT	2A / 28 Vdc	6…26,5 Vdc	250		10		
BS	2BSA	CC	DPDT	2A / 28 Vdc	6…26,5 Vdc	100				
	1BSK		SPDT		3,2…70,6mA	25				
	2BSK		DPDT		4,0…89,2mA	40				
BN	1BN	CC	SPDT	5A / 28 Vdc	6…76,0 Vdc	280				
	2BN		DPDT							
2BC7201		CC	DPDT	2A / 28 Vdc	4,0…90,0mA	40		13		
BCN	1BCN	CC	SPDT	5A / 28 Vdc	6…40,0 Vdc	80				
	2BCN		DPDT							
4B			4PDT	2A / 28 Vdc	6…115 Vdc	400				
T	2T	CC	DPDT	10A / 28 Vdc	6…115 Vdc	500				
	2TR				115 Vac					
TN	2TN	CC	DPDT	15A / 28 Vdc	6…115 Vdc	500				
	2TNR				115 Vac					
2T7188		CC	DPDT	10A / 28 Vdc	6…120 Vdc	500		23		
RFK	RFK	1/2 CC	SPDT	2A / 28 Vdc	6…26,5 Vdc	250				
	2RFK		DPDT							
RFB	RFB	CC	SPDT	2A / 28 Vdc	6…76,5 Vdc	250				
	2RFB		DPDT							
RFBC	RFBC	CC	SPDT	2A / 28 Vdc	4,0…89,2 mA	40				
	2RFBC		DPDT							
4MA		CC	4PDT	1A / 28 Vdc	5,0…30,0 Vdc	260				
4MS		CC	4PDT	1A / 28 Vdc	5,0…48,0 Vdc	120				

HALF SIZE CRYSTAL CAN RELAY
2 AMPERE DPDT

Series I2K

Product Description

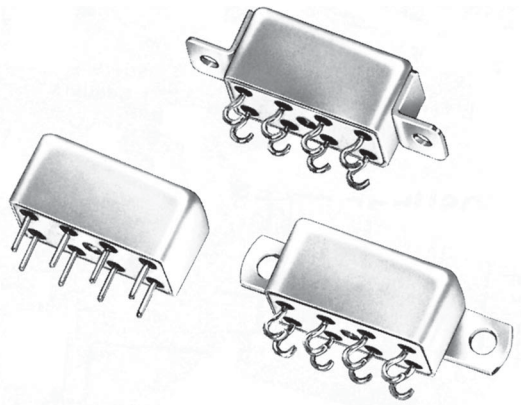
A complete series of half crystal can hermetically sealed relays manufactured and qualified to the referenced Military specification.
The leading relay design in military and commercial application is represented in Nuova Hi-G Italia I 2K series relay.The products advanced design provides superior performance 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 amp. 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

- I 2K 2 form C, DPDT

MIL-PRF-39016/6



Environmental and Physical Specifications

Temperature (Ambient)	-65°C to + 125°C
Shock	100 g's, 6 msec.
Vibration (sinusoidal)	30 g's, 10 to 3000 Hz
Vibration (random)	0,4g²/ Hz, 50 to 2000 Hz
Acceleration	50 g's
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 (Note : All ratings with grounded case)	**Contact load**	**Type 1**	**Type 2**	**Cycles min.**
	Low Level	10 to 50 µA / 10 to 50 mV	10 to 50 µA / 10 to 50 mV	1.000.000
	Resistive	2 Amp / 28 Vdc	2 Amp / 28 Vdc	100.000
		0,3 Amp/115Vac, 60 and 400Hz	0,1 Amp/115Vac, 60 and 400Hz	100.000
	Overload	4A / 28 Vdc	4A / 28 Vdc	100
	Inductive	0,75 Amp / 28 Vdc (200 mH)	0,50 Amp / 28 Vdc (200 mH)	100.000
	Lamp	0,16 Amp / 28 Vdc	0,16 Amp / 28 Vdc	100.000
Contact Resistance	0,05 ohm max. initial, 0,1 ohm max. after life high level, 0,15 ohm max. after low level			
Operate Time	4,0 msec. max.			
Release Time	4,0 msec. max.			
Contact Bounce	2,0 msec. max.			
Contact stabilisation Time	2,0 msec max			
Dielectric Strength	1000 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 megohms min. all points at 500 Vdc			
Intercontact Capacitance	2,5 pF Between contact			
Sensitivity	250 milliwatts at pick-up, 500 milliwatts typical at nominal rated coil voltage, at 25°C			

HALF SIZE CRYSTAL CAN RELAY
2 AMPERE DPDT

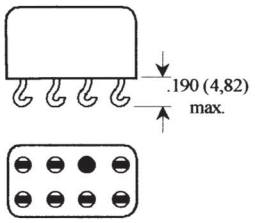
Series I2K

Typical Characteristics (over the Temperature range, unless otherwise noted)

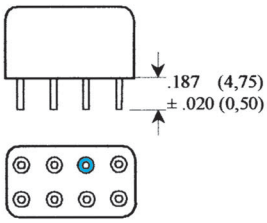
Terminal Codes				Mounting Styles	Load Rating	Coil Voltage (Vdc)		DC Coil Resistance ohms	Pick-up (Vdc)	Drop-out (Vdc)	
Wire Lead (PI)	Solder Lug (L)	Wire Lead (SP)	Wire Lead (W)			Max.	Nom.	±10% at 25°C	Max	Max.	Min.
141	104	105	106	B	Type 1	32,0	26,5	700	18,0	14,0	1,00
	107	125	108	C							
	128			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

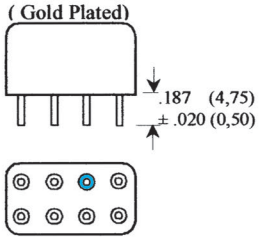
L Solder Lug



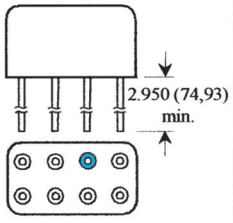
SP Wire Lead Solder Pin



PI Wire Lead Plug in (Gold Plated)

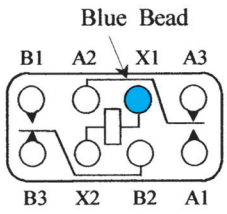


W Wire Lead



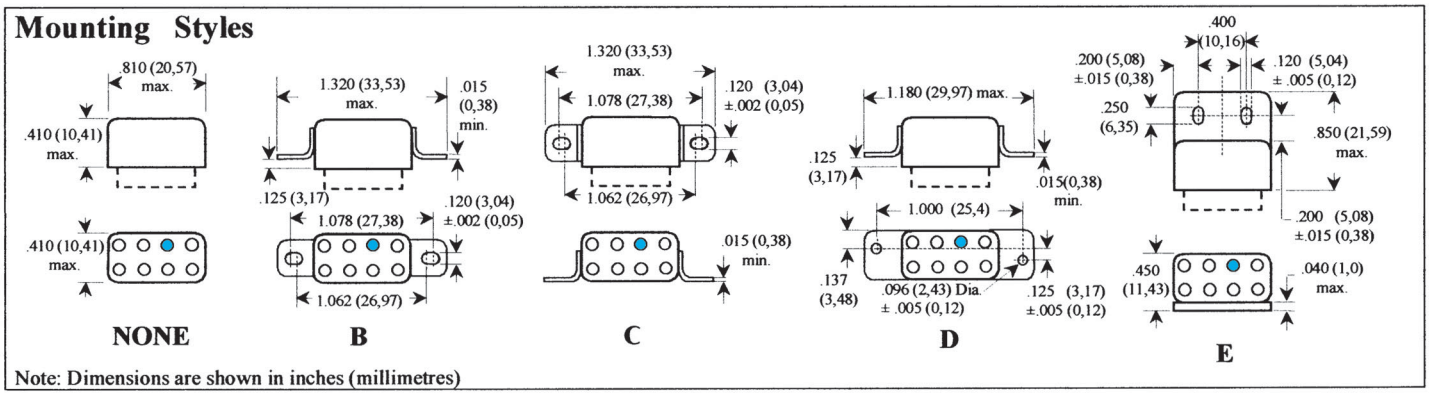
Note : - Dimensions are shown in inches (millimetres).
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) +.003 (0,07) - .002 (0,05)

Schematic Diagram



Note : - Schematic is viewed from terminals

Mounting Styles



Note: Dimensions are shown in inches (millimetres)

Note:

1 Add. the applicable suffix for Failure Rate designation:
Example: **I 2K - 104A**

2 Failure Rate (Reliability Level)

Military Suffix	N-HiG Suffix	FR % / 10.000 Cycles
L	A	3,0
M	B	1,0

How to Order, (note 1) (Part Numbering System)

I2K-104 A

Series

Dash number (see characteristics table)

Reliability levels A or B (note 2)

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