



GENERAL INFORMATION

SELECTOR CHART

Series	Series Types	Enclosure	Contacts		Nominal Coil Voltage or Current	Operating Power at P.I. (mW)	Applicable Specification Approvals			
			Arrangement	Rating			MILITARY		CECC	
							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					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					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					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					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
2K-6600

Product Description

A complete series of half crystal can hermetically sealed relays manufactured and qualified to the referenced CECC specifications. The leading relay design in military and commercial application is represented in Nuova Hi-G Italia 2K-6600 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 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

- 2K-6600 2 form C, DPDT

Contact Category		
Code	Light duty contact	Types
01	0,01 mA, 5 V dc max.	007, 014, 021
02	0.01 mA, 0,01 V dc max.	021

Environmental and Physical Specifications

Temperature (Ambient)	-65°C to + 125°C
Shock	50 g's, 11 msec., half sine wave
Vibration (sinusoidal)	20 g's, 10 to 2000 Hz, 1,5 amplitude peak
Bump	40 g's, 6 msec.,
Sealing	All welded, Hermetic
Weight	0,46 oz. (13 grams) max.
Finish	FRENCH Bright tin lead plated terminals and case



NOTE: -007 ITALIAN FACTORY SPEC.
-014 GERMAN / FRENCH FACTORY SPEC.
-021 UK FACTORY SPEC.

Apart from the range and a few environmental tests, all specs. are identical. Nuova HiG Italia is the only Company qualified to each/all country specs.

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

Coil Data	See Typical Characteristics chart		
Contact Rating (Note : All ratings with grounded case)	Type Load	Contact Load	Cycles min.
	Low Level	10 mA / 30 mV max.	1.000.000
	Resistive	2 Amp / 28 Vdc,	100.000
	Overload	4 Amp / 28 Vdc	100
	Inductive	0,75 Amp / 28 Vdc (200 mH)	100.000
Contact Resistance	0,05 ohm max. initial, 0,2 ohm max after life		
Operate Time	4,0 msec. max. at 25°C		
Release Time	4,0 msec. max. at 25°C		
Contact Bounce	2,5 msec. max. at 25°C		
Dielectric Strength	500 Vrms min., 60 Hz, all points at sea level		
Insulation Resistance	1000 megohms min. all points at 500 Vdc		
Intercontact Capacitance	2.5 pF typical		
Sensitivity	250 milliwatts max. ,at pick-up, 1 watt max., at nominal rated coil voltage at 25 °C		



HALF SIZE CRYSTAL CAN RELAY

2 AMPERE DPDT

Series
2K-6600

Typical Characteristics

CECC Spec.	Coil Variant Code	Coil Voltage V dc		Coil resistance ohms ± 10% at 25 ° C	Operated Voltage V dc Max. at		Release Voltage V dc			
		Rated	Max		25 ° C	125 ° C	Non-release at		Must-release at	
							25 ° C	125 ° C	25 ° C	-65 ° C
007	01	5,0	6,0	27	2,7	3,8	1,65	2,4	0,29	0,21
	02	6,0	7,0	37	-	5,0	-	2,5	-	0,40
	03		7,5	40	3,2	4,5	2,0	2,9	0,35	0,25
	04		7,2	40	3,6	-	-	-	0,30	-
	05		7,2	42	3,6	-	-	-	0,30	-
	06		7,0	47,5 (±15%)	-	50	-	2,5	-	0,40
	07		7,2	60	3,6	-	-	-	0,30	-
	08	12,0	14,0	120	7,2	-	3,6	-	1,2	-
	09		14,4	150	6,5	-	-	-	0,75	-
	10		14,4	150	7,2	-	-	-	0,60	-
	11		14,0	150	-	10,0	-	5,0	-	0,8
	12		15,0	160	6,4	9,0	4,0	5,8	0,70	0,50
	13		14,0	190 (±15%)	-	10,0	-	5,0	-	0,8
	14	26,5	14,4	210	7,2	-	-	-	0,6	-
	15		14,4	320	7,2	-	-	-	0,6	-
	16		32,0	675	13,5	-	-	-	1,5	-
	17		30,0	700	-	22,0	-	12,0	-	1,5
	18		32,0	700	13,5	18,0	8,0	14,0	1,5	1,0
	19		30,0	935 (±15%)	-	22,0	-	12,0	-	1,5
	20	28,0	29,0	700	-	21,0	-	8,0	-	1,0
	21		29,0	935 (±15%)	-	21,0	-	8,0	-	1,0
	22	48,0	62,0	2500	25,0	-	-	-	2,5	-
	23		57,6	2500	28,8	-	-	-	2,4	-
	24		55,0	2600 (±15%)	-	40,0	-	20,0	-	2,5
	25		57,6	2800	28,8	-	-	-	2,4	-
	26		57,6	3500	28,8	-	-	-	2,4	-
	27		32,0	675	14,4	-	-	-	1,2	-
	28	24,0	32,0	830	14,4	-	-	-	1,2	-
	29		32,0	1250	14,4	-	-	-	1,2	-
	30		32,0	700	14,4	-	-	-	1,2	-
	31		5,0	-	40	3,0	-	-	-	0,25
	32	20,0	24,0	700	12,0	-	-	-	1,0	-
	33	6,0	7,2	40	3,3	-	-	-	0,35	-
014	01	5,0	6,0	27	2,7	3,8	1,65	2,4	0,29	0,21
	02	6,0	7,5	37	3,2	4,5	2,0	2,9	0,35	0,25
	06		7,5	47,5	3,5	4,5	2,0	2,9	0,35	0,25
	11	12,0	15	150	6,4	9,0	4,0	5,8	0,7	0,5
	13		15	190	7,0	9,0	4,0	5,8	0,7	0,5
	17	26,5	32	700	13,5	18,0	8,0	12,0	1,5	1,0
	19		32	935	14,5	19,0	8,0	12,0	1,5	1,0
	20	28,0	32	700	13,5	18,0	8,0	12,0	1,5	1,0
	21		32	935	14,5	19,0	8,0	12,0	1,5	1,0
24	48,0	55	2600	28,0	36,0	16,0	23,0	2,8	2,0	
021	01	6,0	7,2	40	3,6	-	-	-	0,3	-
	02		7,2	42	3,6	-	-	-	0,3	-
	03		7,2	60	3,6	-	-	-	0,3	-
	04	12,0	14,4	150	7,2	-	-	-	0,6	-
	05		14,4	210	7,2	-	-	-	0,6	-
	06		14,4	320	7,2	-	-	-	0,6	-
	07	24,0	32,0	675	14,4	-	-	-	1,2	-
	08		32,0	830	14,4	-	-	-	1,2	-
	09		32,0	1250	14,4	-	-	-	1,2	-
	10	48,0	57,6	2500	28,8	-	-	-	2,4	-
	11		57,6	2800	28,8	-	-	-	2,4	-
	12		57,6	3500	28,8	-	-	-	2,4	-
	13	5,0	6,0	40	3,0	-	-	-	0,25	-
	14	24,0	32,0	700	14,4	-	-	-	1,2	-
	15	20,0	24,0	700	10,6	-	-	-	1,0	-

Mounting Variants (007)

01	
02	
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Mounting Variants (007)

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Note :

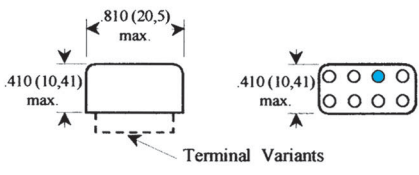
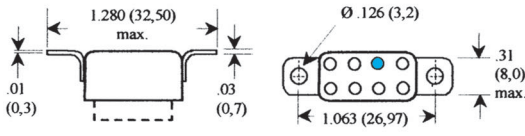
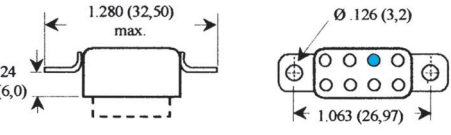
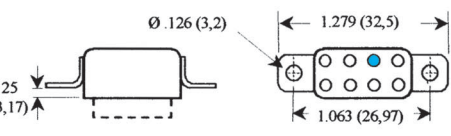
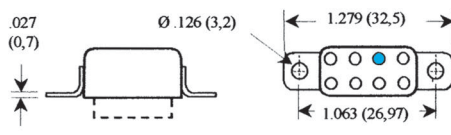
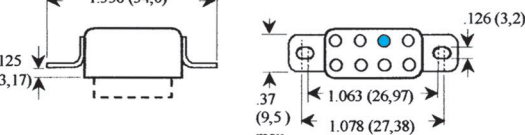
- Can dimensions shown in ref. 01, apply to all variants
- Dimensions are in inches (millimetres), tolerance $\pm 0,25$ unless otherwise stated



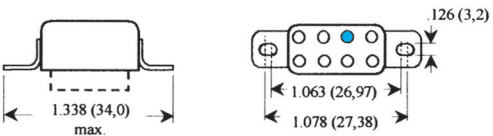
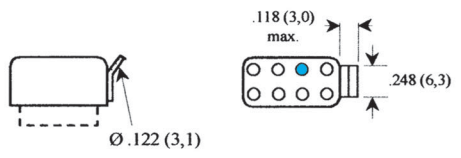
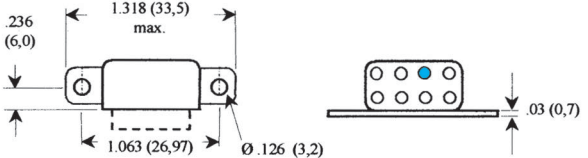
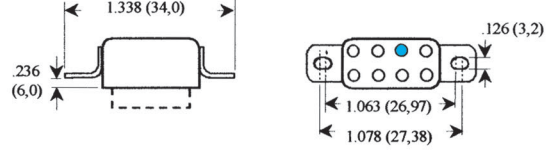
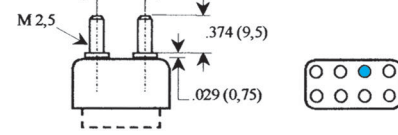
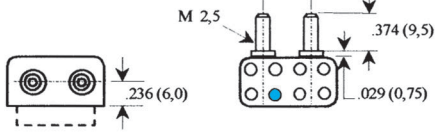
HALF SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT

Series
2K-6600

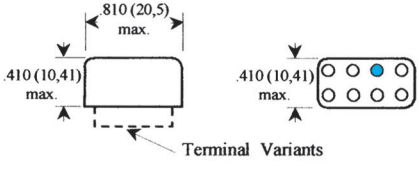
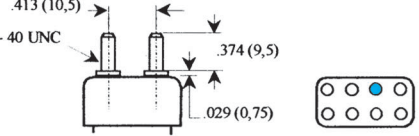
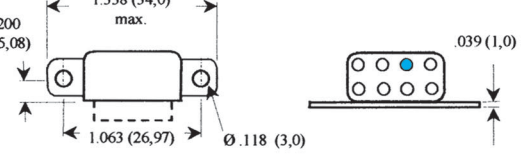
Mounting Variants (014)

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02	
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06	

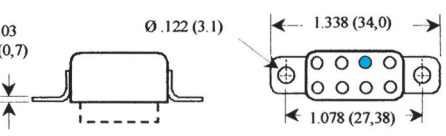
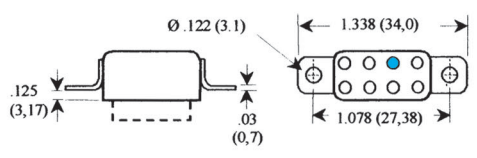
Mounting Variants (014)

07	
09	
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Mounting Variants (021)

01	
02	
03	

Mounting Variants (021)

04	
05	
Note: - Can dimensions shown in ref. 01, apply to all variants - Dimensions are in inches (millimetres), tolerance $\pm 0,25$ unless otherwise stated	



HALF SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT

Series
2K-6600

Terminal Variants (007)

01	02	03	04	05

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)

Terminal Variants (014)

01	02	03

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)

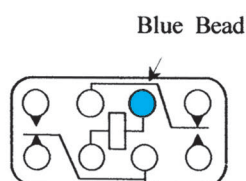
Terminal Variants (021)

11	12	13

Note :

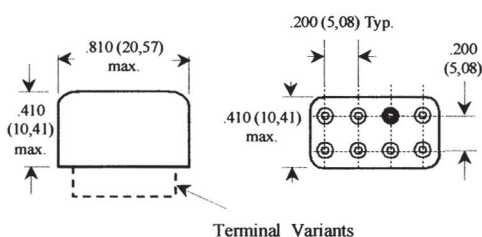
- Dimensions are shown in inches (millimetres)
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) +.003 (0,07) - .002 (0,05)

Schematic Diagram



Note: - Schematics are viewed from terminals

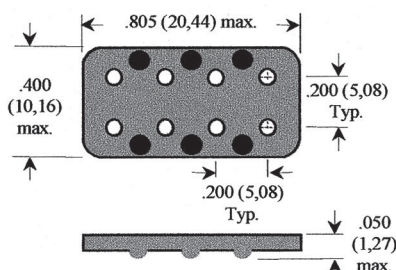
Outline Dimensions



Note: - Dimensions are shown in inches (millimetres)

Insulating Pad

Relays can be supplied with a insulating pad epoxied to the relay header, to prevent the possible shorting of printed circuit board land lines and to facilitate circuit board cleaning.



Note: - Dimensions are shown in inches (millimetres)

How to Order

CECC Specification No.	CECC 16101	-007	-01	-15	-01	-02	-P
Type Code (CECC registration No.)							
Contact Code (applicable only for 021)							
Coil Variant Code							
							Insulating Pad (optional, only for 007 & 014)
							Terminal Variant
							Mounting Variant