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				

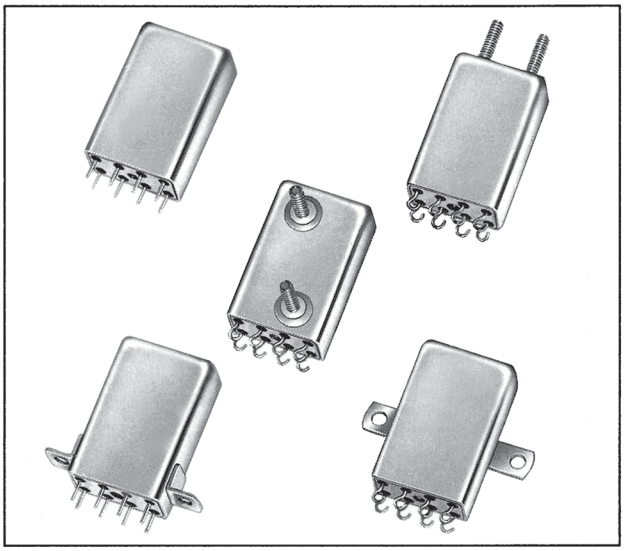
FULL SIZE CRYSTAL CAN RELAY
5 AMPERE SENSITIVE

Series BCN

Product Description

An innovation in design with emphasis on material technology developments have allowed NHi-GI to manufacture this high sensitivity 5 amperes crystal can relay. The selection of contacts and all current currying parts, have resulted in this highly reliable, sensitive, fully hermetically sealed relay. This relay meets all the switching and environmental conditions of demanding military environments.

- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- 5 amp. switching
- Contacts, special metal alloy with gold plating



Series Types

- **1BCN** 1 form C, SPDT
- **2BCN** 2 form C, DPDT

Environmental and Physical Specifications

Temperature (Ambient)	-65°C to + 125°C
Shock	100 g's, 6 msec
Vibration (sinusoidal)	20 g's, 10 to 2000 Hz
Acceleration	50 g's
Sealing	All welded, Hermetic
Weight	1 oz. (28.35 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)	**Type Load**	**Contact Load**	**Cycles min.**
	Resistive	5Amp / 28 Vdc	100.000
		3 Amp/ 115 Vac, 400 Hz	100.000
		2 Amp/ 115 Vac, 60 Hz	100.000
	Resistive overload	10 Amp / 28 Vdc	100
	Inductive	1 Amp/ 28 Vdc (200 mH)	100.000
Contact Resistance	0,02 ohm max. initial		
Operate Time	15,0 msec. max. at 25°C		
Release Time	4,0 msec. max. at 25°C		
Contact Bounce	2,0 msec. max. at 25°C		
Dielectric Strength	1000 Vrms min., 60 Hz, between contact to case, 500 Vrms min. , 60 Hz between contacts and coil to case, at sea level		
Insulation Resistance	1000 megohms min. all points at 500 Vdc		
Intercontact Capacitance	2,5 pF typical		
Sensitivity	80 milliwatts at pick-up, 320 milliwatts max. at nominal rated coil voltage at 25 °C		

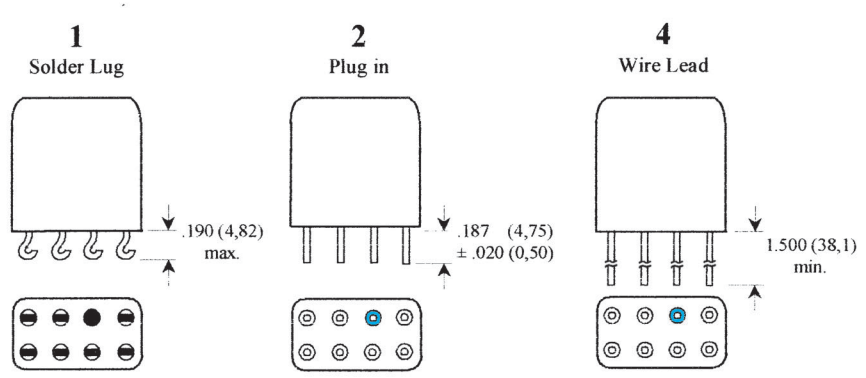
FULL SIZE CRYSTAL CAN RELAY
5 AMPERE SENSITIVE

Series BCN

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

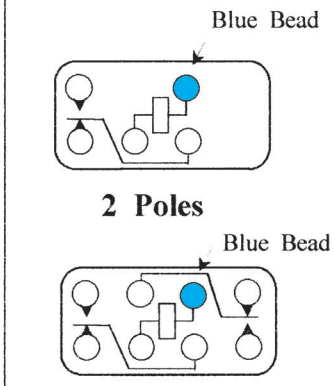
Coil Voltage Code	Coil Voltage Vdc Nominal	Coil Current mA Nominal	Coil Resistance ohms ± 10% at 25 °C	Pick-up mA Max. at 25°C	Drop-out mA Min. at 25 °C
106	6,0	54,5	110	27,3	3,0
112	12,0	26,7	450	13,4	1,4
128	28,0	11,2	2500	5,6	0,6
140	40,0	8,0	5000	4,0	0,4

Terminal Styles



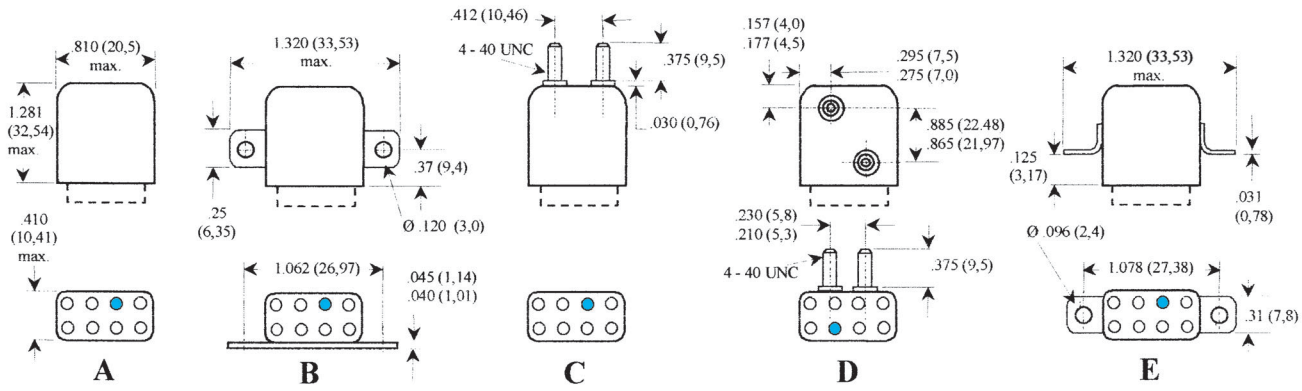
Note :
- Dimensions are shown in inches (millimetres)
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) + .003 (0,07) - .002 (0,05)

Schematic Diagrams



Note :
- Schematic is viewed from terminals

Mounting Styles



Note: - Dimensions are shown in inches (millimetres)

How to Order (Part Numbering System)

2BCN - 1 C - 128 P

- 2BCN: Series Type
- 1: Terminal Style
- C: Mounting Style
- 128: Coil Voltage Code
- P: Insulating Pad (optional) See half crystal series

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