



# FULL SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT

Series  
2B-7506

## Product Description

A complete series of full 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 Italia 2B-7506 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:

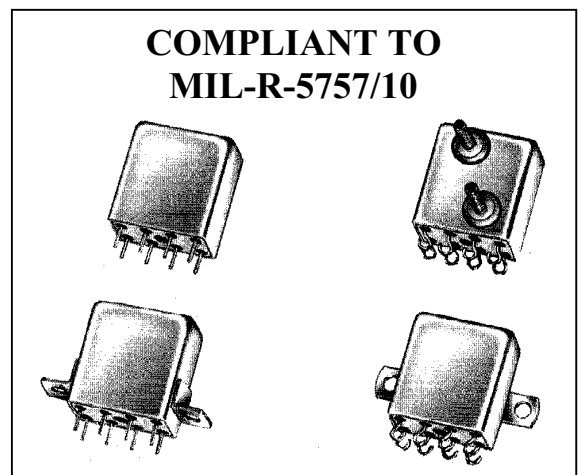
- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- Low level to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating
- Frame, armature designs and force / mass ratio provides exceptional immunity to shock and vibration.

## Series Type

- **2B-7506** 2 form C, DPDT

## Environmental and Physical Specifications

<b>Temperature (Ambient)</b>	- 65°C to + 125°C
<b>Shock</b>	100 g, 6 ms.
<b>Vibration (sinusoidal)</b>	20 g, 10 to 2000 Hz
<b>Acceleration</b>	50 g
<b>Sealing</b>	All welded, Hermetic
<b>Weight</b>	0,8 oz. (22,68 grams) max.



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

<b>Coil Data</b>	See Typical Characteristics chart			
<b>Contact Rating</b>	<b>Type Load</b>	<b>Contact Load</b>		<b>Cycles min.</b>
		<b>High Level</b>	<b>Low Level</b>	
(Note: All ratings with grounded case)	Resistive	2 A / 28 Vdc 0,3 A / 115 Vac, 60 and 400 Hz	10 to 50 $\mu$ A / 10 to 50 mV	100.000
	Overload	4 A / 28 Vdc	N/A	100.000
	Inductive	1 A / 28 Vdc (200 mH)	N/A	100
	Lamp	0,1 A / 28 Vdc	N/A	100.000
<b>Contact Resistance</b>	0,05 $\Omega$ max. initial, 0,1 $\Omega$ max. after life high level, 0,15 $\Omega$ max. after low level			
<b>Operate Time</b>	6,0 ms. Max.			
<b>Release Time</b>	6,0 ms. Max.			
<b>Contact Bounce</b>	High Level 1,0 ms. max., Low Level 2,0 msec. max.			
<b>Dielectric Strength</b>	1.000 Vrms min., 60 Hz, all points, 500 Vrms min. between open contacts and coil to case, at sea level			
<b>Insulation Resistance</b>	1.000 M $\Omega$ min. all points at 500 Vdc			
<b>Intercontact Capacitance</b>	2,5 pF between contacts			
<b>Sensitivity</b>	1,0 W max. at nominal rated coil voltage, at 25 °C			



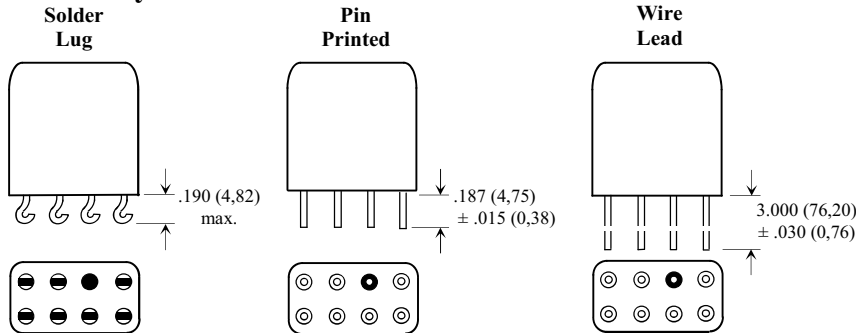
# FULL SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT

Series  
**2B-7506**

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

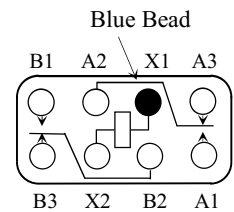
Mounting Styles							Terminal Styles	Coil Resistance $\Omega$ $\pm 10\%$ at 25°C	OPERATE PARAMETERS				
Low Level Contacts		High Level Contacts							Coil Voltage Vdc		P.I. Vdc	D.O. Vdc	
Stud	B	Side	Stud	A	B	None		Max.	Nom.	Max.	Max.	Min	
						-052	Solder Lug	675	32,0	26,5	18,0	14,0	1,5
						-053	Wire Lead	675	32,0	26,5	18,0	14,0	1,5
						-054	Pin	675	32,0	26,5	18,0	14,0	1,5
-015		-035	-037	-039	-043		Solder Lug	675	32,0	26,5	18,0	14,0	1,5
-016		-036	-038				Wire Lead	675	32,0	26,5	18,0	14,0	1,5
	-022			-040	-044		Pin	675	32,0	26,5	18,0	14,0	1,5
				-067		-060	Pin	194	14,7	12,0	8,9	6,0	0,32
						-059	Pin	44	7,3	6,0	4,2	3,0	0,14

### Terminal Styles



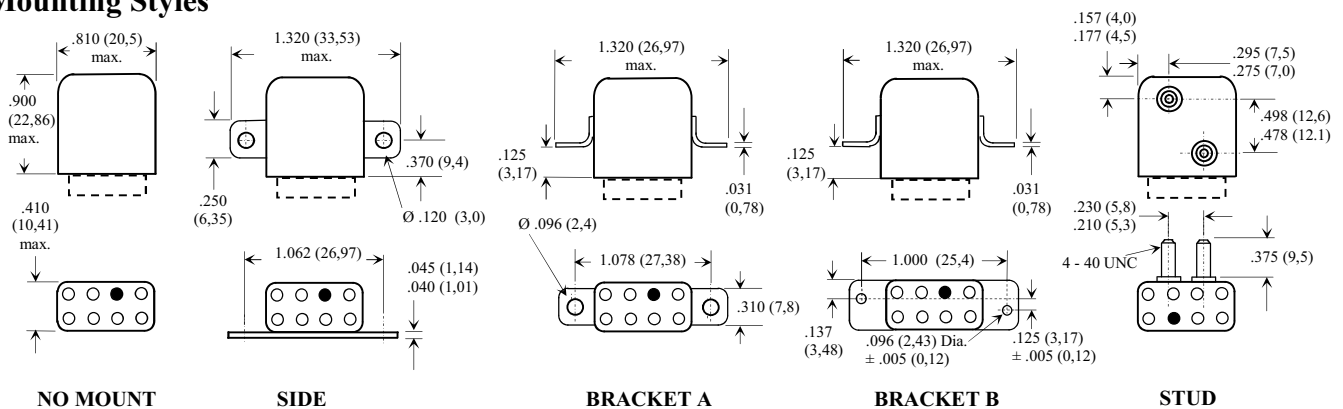
Note:  
- Dimensions are shown in inches (millimetres)  
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76)  $\pm .002$  (0,05)

### Schematic Diagram



Note:  
- Schematic are viewed from terminals

### Mounting Styles



Note:  
- Dimensions are shown in inches (millimetres)

### How to Order, (Part Numbering System)

**2B-7506 - 015 P**

Series Type

Dash number (see characteristics table)

Insulating pad (optional) See half crystal series

Note:  
- Relays compliant to MIL-R-5757/10 are designated 2B-7506 and applicable dash numbers coincide with Hi-G Italia dash numbers