



HALF SIZE CRYSTAL CAN RELAY DPDT - 5 A

Series

HA

Product Description

The 2HA is a half size crystal can hermetic relay with two changeover contacts. Improved current-carrying paths provide switching up to 5 A.

Construction Features

- All-welded, hermetically sealed construction
- 2 form C, DPDT contacts
- Gold-plated special metal alloy contacts
- Cleaning and sealing for internal cleanliness
- Balanced frame and armature design for shock and vibration resistance



Example marking: 2HA-2A-126
26,5 VDC · COIL 600 Ω · without pad

Environmental and Physical Specifications

Parameter	Specified data
Ambient temperature	-65°C to +125°C
Shock	100 g; 6 ms
Sinusoidal vibration	20 g; 10 to 2000 Hz
Acceleration	30 g
Sealing	All-welded, hermetic
Weight	0.35 oz (10.0 g) maximum

Contact Load and Electrical Life

Type of load	Contact rating	Cycles minimum
Resistive	5 A / 28 Vdc; 1 A / 115 Vac, 400 Hz; 0.3 A / 115 Vac, 60 Hz	100,000 each
Overload	10 A / 28 Vdc	100
Inductive	0.75 A / 28 Vdc (200 mH)	100,000

All contact ratings apply with grounded case.



HALF SIZE CRYSTAL CAN RELAY DPDT - 5 A

Series

HA

Electrical Characteristics

Over the temperature range, unless otherwise noted.

Parameter	Specified data
Contact resistance	0.05 Ω maximum, initial
Operate / release time	4.0 ms / 3.0 ms maximum at 25°C
Contact bounce	3.0 ms maximum at 25°C
Dielectric strength	1000 Vrms minimum, 60 Hz, all points; 500 Vrms minimum between open contacts and coil to case, at sea level
Insulation resistance	1000 M Ω minimum, all points at 500 Vdc
Intercontact capacitance	2.5 pF between contacts
Sensitivity	300 mW at pickup; 1.4 W at nominal rated coil voltage, at 25°C

Coil Table - Typical Characteristics

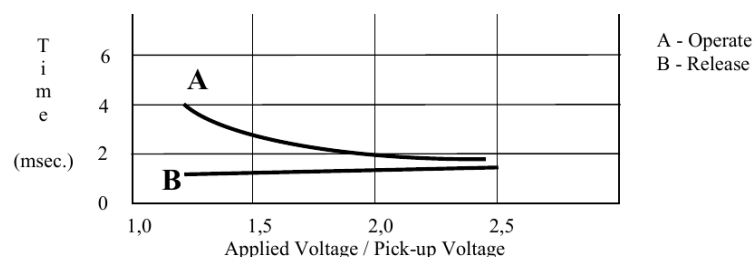
Voltage code	Nominal / max Vdc	Coil Ω $\pm 10\%$ at 25°C	Pickup max Vdc at 25°C	Dropout min Vdc at 25°C
105	5.0 / 6.0	18	3.6	0.25
106	6.0 / 7.2	40	3.5	0.35
112	12.0 / 14.4	150	6.7	0.75
124	24.0 / 29.0	400	17.0	1.4
126	26.5 / 32.0	600	13.4	1.5
136	36.0 / 43.0	900	26.0	2.2
148	48.0 / 57.0	1600	34.0	2.8

Typical Operate and Release Time

A: operate time

B: release time

Typical characteristics are based on factory knowledge. Compliance tests are not performed for these typical curves.





HALF SIZE CRYSTAL CAN RELAY

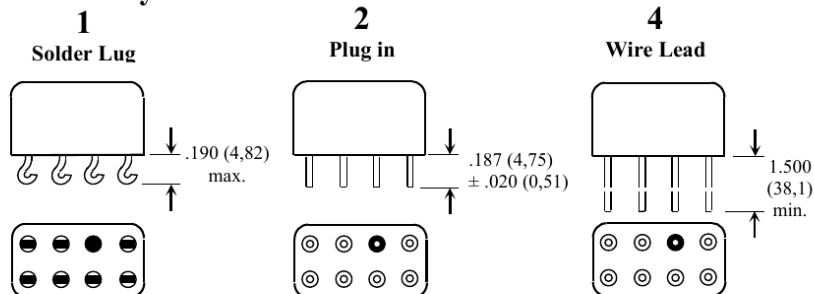
DPDT - 5 A

Series

HA

Terminal Styles, Mounting and Wiring

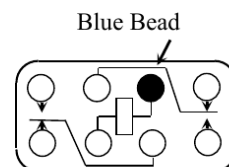
Terminal Styles



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)

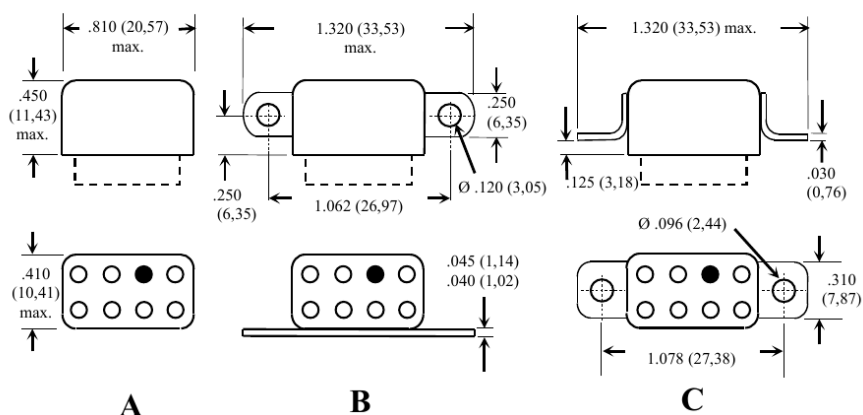
Schematic Diagram



Note:

- Schematics are viewed from terminals

Mounting Styles

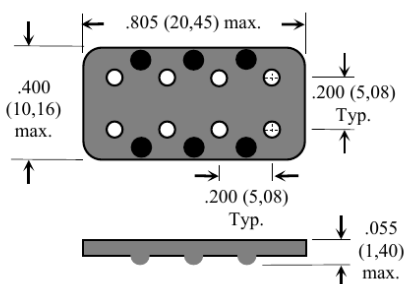


Note:

- 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. To order relay with pad add. "P" to Part Number. Example: 2HA-2A-126 P



Note:

- Dimensions are shown in inches (millimetres)

How to Order

2HA	-2	A	-126	P
Series	Terminal style	Mounting style	Voltage code	Optional pad

Terminal: 1 = solder lug; 2 = plug-in; 4 = wire lead.

Mounting: A, B or C, as illustrated above.

Voltage code: 105, 106, 112, 124, 126, 136 or 148.

Insulating pad: add P; omit for no pad.

Example: 2HA-2A-126 = DPDT relay, plug-in terminals, mounting A, 26.5 Vdc coil, 600 Ω , without pad. With pad: 2HA-2A-126P.