



CRYSTAL CAN RELAY

DPDT - 10 A | DC / AC COIL

Series

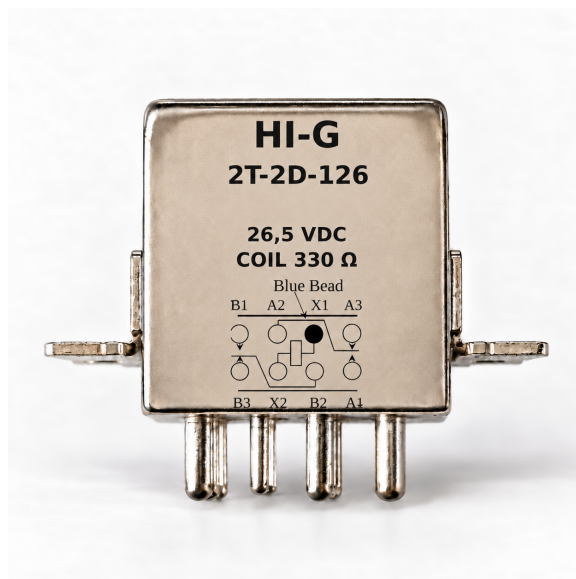
T

Product Description

The T series is a crystal can relay for high-current switching in commercial and military applications. An optimized magnetic structure and large contact paths provide switching up to 10 A in less than 0.65 cubic inches.

Construction Features

- All-welded, hermetically sealed construction
- 2 form C, DPDT contacts
- Special metal alloy contacts with gold plating



Example: 2T-2D-126
26,5 VDC · COIL 330 Ω

Series Types

Series	Coil operation / construction
2T	Basic relay with DC coil; 2 form C, DPDT
2TR	Relay with internal bridge rectifier for AC operation, 60 to 400 Hz

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	2.0 oz (56.70 g) maximum

Contact Load and Electrical Life

Load	Contact rating	Cycles minimum
Resistive	10 A / 28 Vdc 5 A / 115 Vac, 400 Hz 3 A / 115 Vac, 60 Hz	100,000 each
Inductive	6 A / 28 Vdc (200 mH)	100,000

All contact ratings apply with grounded case.



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Electrical Characteristics

Over the temperature range, unless otherwise noted.

Parameter	Specified data
Contact resistance	0.01 Ω maximum, initial
Operate time	13.0 ms maximum at 25°C
Release time	2T: 13.0 ms maximum; 2TR: 16.0 ms maximum, at 25°C
Contact bounce	5.0 ms maximum at 25°C, normally closed and normally open contacts
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
Sensitivity	500 mW at pickup; 1.7 W typical at nominal rated coil voltage, at 25°C

2T DC Coil - Typical Characteristics

Voltage code	Nominal / max Vdc	Coil $\Omega \pm 10\%$ at 25°C	Pickup max Vdc	Dropout min Vdc	Suppression Vdc (E)
106	6.0 / 7.2	22	3.3	0.5	47
112	12.0 / 14.4	90	6.7	1.0	47
126	26.5 / 32.0	330	13.0	2.0	47
215	115.0 / 125.0	7500	63.0	5.0	134

2TR AC Operation, 60 to 400 Hz - Typical Characteristics

Voltage code	Nominal / max V*	Coil $\Omega \pm 10\%$ at 25°C	Pickup max V*	Dropout min V*
112	12.0 / 14.0	90	8.0	1.0
124	24.0 / 32.0	330	14.5	2.0
215	115.0 / 125.0	7500	66.0	7.0
320	220.0 / 250.0	25000	120.0	10.0

Pickup and dropout values are specified at 25°C. Suppression values apply to the 2T version with suffix E.

* The original table labels these voltage columns Vdc while identifying 2TR as AC operation; confirm the voltage measurement basis for the application.



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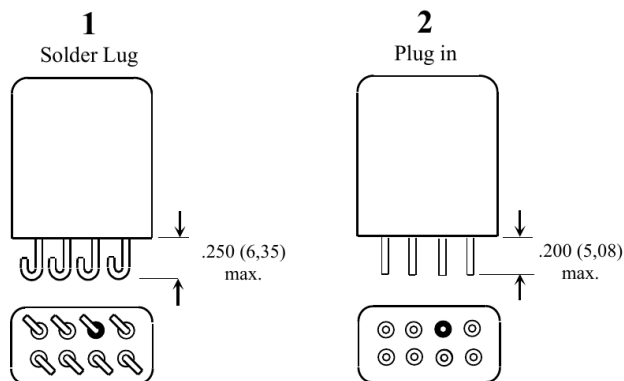
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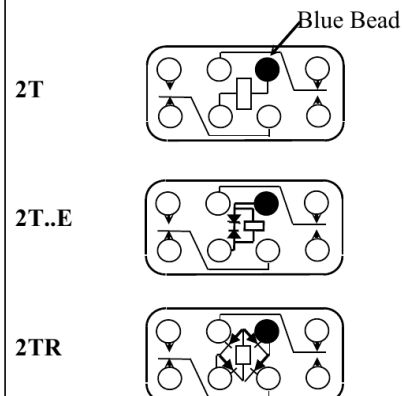
Terminal Styles, Mounting and Wiring

Terminal Styles



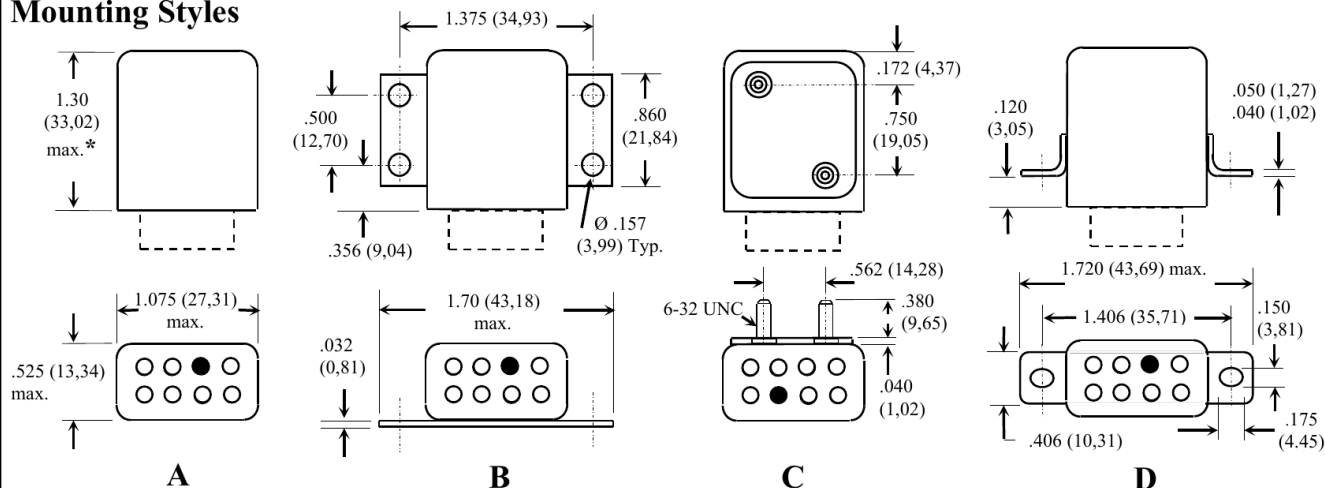
Note:
- Dimensions are shown in inches (millimetres)
- Terminal spacing is .200 (5,08). Terminal diameter is .050 (1,27) $\pm$.002 (0,05)

Schematic Diagrams



Note:
- Schematics are viewed from terminals

Mounting Styles



Note:
- Dimensions are shown in inches (millimetres).
- “*” 2TR series type: 1.34 (34,03) max.

How to Order

2T / 2TR	-2	A	-126 / -124	E
Series	Terminal style	Mounting style	Voltage code	2T suppression option

Terminal: 1 = solder lug; 2 = plug-in. Mounting: A, B, C or D.

2T DC voltage codes: 106, 112, 126, 215.

2TR AC voltage codes: 112, 124, 215, 320.

Option E: internal voltage suppressor for 2T; omit for the basic DC relay.

DC example: 2T-2A-126 = 26.5 Vdc, 330 Ω ; with suppressor: 2T-2A-126E.

AC example: 2TR-2A-124 = voltage code 124, internal bridge rectifier.