



HVR Series Reed Relays:

Teledyne High Voltage/High Power Reed Relays are designed to switch up to 7500V in a compact PCB mountable form factor. These relays are also available with integrated mounting screws for bulkhead installation or extra reinforcement in harsh environments. These plastic package relays provide the consistent switching performance of a high voltage sealed reed switch in a convenient lightweight form factor.

Features:

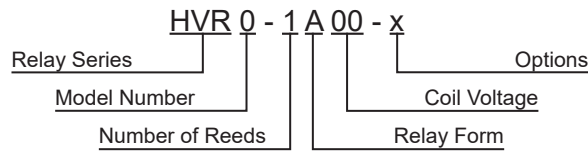
- High Isolation between contacts and coil
- Hermetically sealed contacts
- Lightweight Plastic Package
- Mounting Threads Available



Applications:

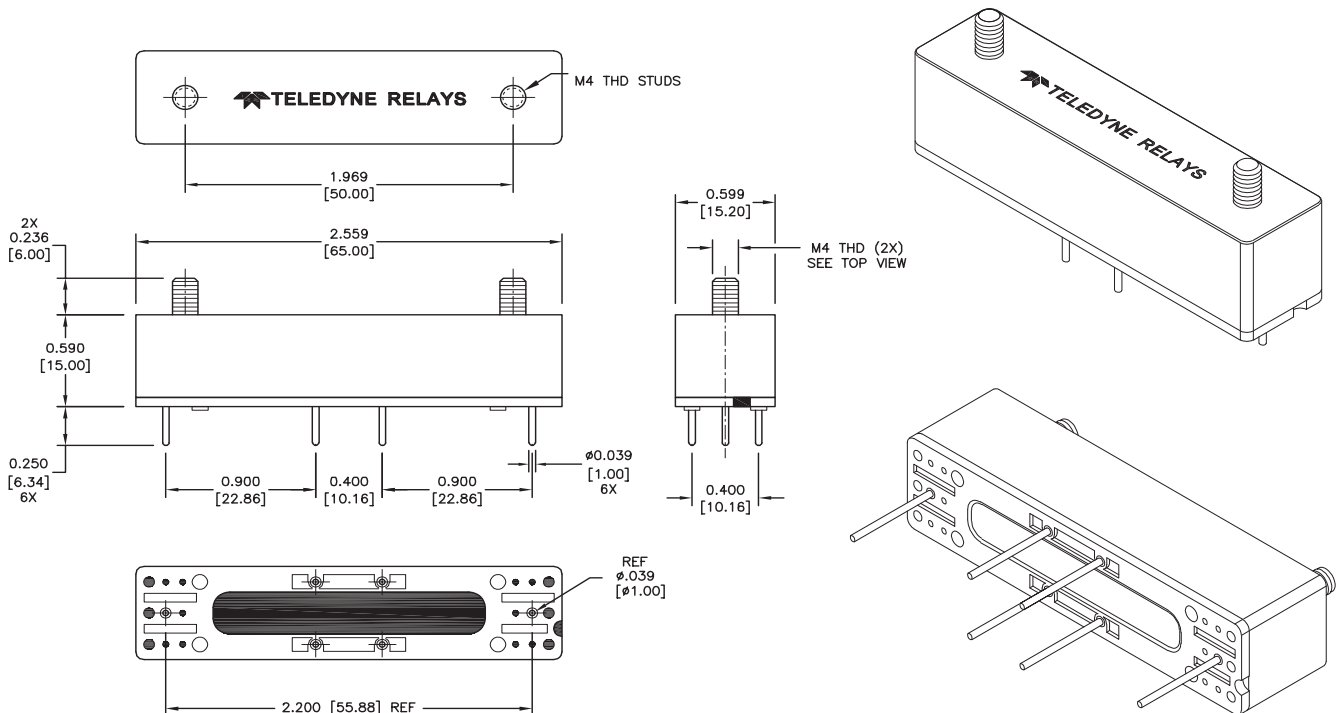
- Dielectric Voltage Testing
- Hi-Pot Cable Testing
- ESD Sensitivity Testing
- Medical Equipment
- Power Generation/Conversion

Teledyne Part Numbering System



Relay Series:	Model Number:	Number of Reeds:	Relay Form:	Coil Voltage ¹ :	Options:
HVR	1: 250 V 2: 5000 V 3: 7500 V	1	A (Normally Open)	12 Vdc 24 Vdc	F: Fixing Screws ²

1: Not available on all relay forms. Please visit next page for more detail.
2: Fixing screws option is only available on 5KV and 7.5KV models.



Please feel free to contact us for more information regarding additional options and custom configurations.



Specifications			HVR3-1A	HVR2-1A	HVR1-1A
Parameters	Test Conditions	Units	1 Form A	1 Form A	1 Form A
Coil Characteristics					
Coil Voltage	Nominal	Vdc	12	24	12
Coil Resistance	+/- 10%, 20°C	Ω	300	1200	300
Operate Voltage	Must Operate by	Vdc Max	8.8	17.6	8.8
Release Voltage	Must Release by	Vdc Min	1	2	1
Contact Characteristics					
Switching Voltage	Max DC/Peak AC	Volts	7500	5000	250
Switching Current	Max DC/Peak AC	Amps	0.2	0.2	3
Carry Current	Max DC/Peak AC	Amps	3	3	5
Contact Rating	Max DC/Peak AC	Watts	50	50	100
Contact Resistance	Maximum	Ω	0.15	0.15	0.1
Relay Characteristics					
Insulation Resistance	Minimum	Ω	10 ¹²	10 ¹²	10 ¹⁰
Dielectric Strengths	Contact to Coil	Volts	14,000	10,000	10,000
	Contact to Contact		10,000	7,500	500
Operate Time, Typical (bounces included)	At Nominal Coil Voltage	mSec	4	4	4
Release Time, Typical (without diode)		mSec	0.5	0.5	0.5
Life Expectancy					
Mechanical Life	Minimum	Ops	10 ⁶	10 ⁶	10 ⁶
Environmental Characteristics					
Storage Temperature		°C	-40 ~ +85	-40 ~ +85	-40 ~ +85
Operating Temperature		°C	-25 ~ +70	-25 ~ +70	-25 ~ +70
Vibration	50 - 500 Hz	G	30	30	30
Shock	11 mSec	G	50	50	30
Resonance Frequency		Hz	900	900	900
Weight	Maximum	Oz	0.99	0.99	0.99

Top View:

