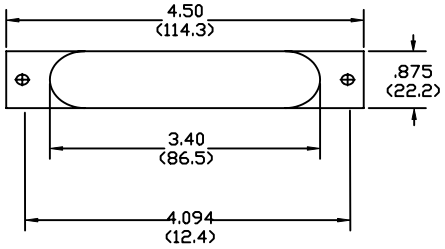
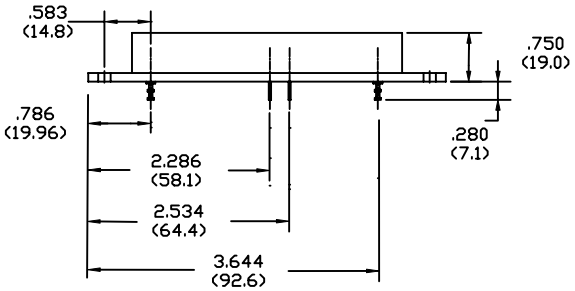
HIGH VOLTAGE SWITCHING RELAY

SPST - NO. 5 TO 10 MILLIAMPS

EPOXY ENCAPSULATED HIGH VOLTAGE REED.
SPST-NO TUNGSTEN CONTACTS
SWITCHES LOADS UP 10 mA @ 5000 VOLTS DC
CLASS 102HV SAME AS ABOVE EXCEPT:
SWITCHES 10,000 VOLTS WITH LOADS UP TO 5mA DC

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

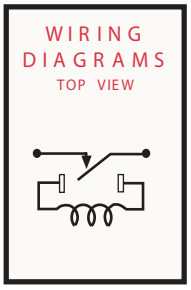




Do not use wire heavier than #22 WG. Excess stress on terminals could cause damage to internal components

GENERAL SPECIICATIONS (@ 25° C)

	UNITS
COIL	
Pull-in Voltage:	75% of nominal voltage or less
Drop Out Voltage:	10% of nominal voltage or more
Max. Voltage:	110% of nominal voltage
Resistance:	±10 % measured @ 25° C
Coil Power:	See chart
Duty:	Continuous
CONTACTS	
Contact Material:	Tungsten
Contact Resistance:	200 milliohms max
Contact Rating:	10 ma 5000 VDC 5 ma @ 10,000 VDC
TIMING	
Operate time:	1 mS or less @ nominal voltage
Release time:	1 mS or less @ nominal voltage
Across Open Contacts:	12,000 VDC
Between Mutually Insulation Points:	12,000 VDC
Insulation Resistance:	1000 megohms min. @ 500 VDC
Capacitance:	5 pf typical coil to contact
TEMPERATURE	
Operating:	-40° C to +85° C rated operation
Storage:	-40° C to +105° C
SHOCK RESISTANCE	
Operating:	30 g's, 11 mS, 1/2 sine wave
VIBRATION RESIST	
Operating:	10 g's, 10 Hz to 1000 Hz
LIFE EXPECTANCY	
Electrical:	1,000,000 operations @ rated load
Mechanical:	10,000,000 operations @ no load
MISCELLANEOUS	
Operating Position:	Any
Enclosure:	Epoxy encapsulated
Weight:	49 grams approx.



STANDARD PART NUMBERS	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)	NOMINAL POWER (mW)
5,000 VOLTS NORMALLY OPEN-10mA			
W102VX-49	VDC	70	500 mW
W102VX-50	12 VDC	250	580 mW
W102VX-51	24 VDC	1000	580 mW
10,000 VOLTS NORMALLY OPEN-5mA			
W102HVX-3	24 VDC	400	1.5 Watts

STRUTHERS-DUNN
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