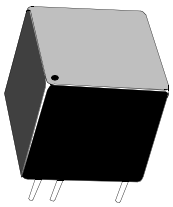
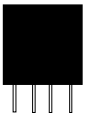
SUBMINIATURE PC MOUNTABLE, EPOXY SEALED



CLASS 7
2 AMP SWITCHING IN THE WORLDS SMALLEST PACKAGE. SPDT, DPDT.

ACTUAL SIZE



The Class 7 Subminiature high reliability industrial grade relay has excellent R.F. switching characteristics.

Recognized Component mark for Canada and the United States.

UL Recognized
File No. E52197

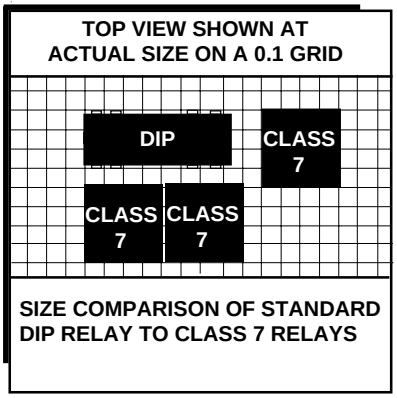
AVAILABLE WITH SPDT OR DPDT BIFURCATED GOLD CLAD SILVER-PALLADIUM CROSS BAR CONTACTS- RATED FOR LOW LEVEL TO 2.0 AMP SWITCHING.

REQUIRES ONLY .155 SQUARE INCH OF CIRCUIT BOARD SPACE.

TOTAL VOLUME OF LESS THAN A CUBIC CENTIMETER.

CONFORMS TO FCC PART 68.302. 1500 V PEAK SURGE RESISTANCE.

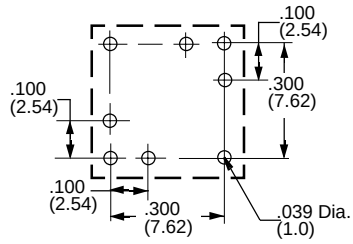
CONFORMS TO FCC PART 68.304. 1000 V DIELECTRIC WITHSTANDING VOLTAGE..



The Class 7 relays can be densely packed together without magnetic interaction from adjacent relays.

PC BOARD PATTERN

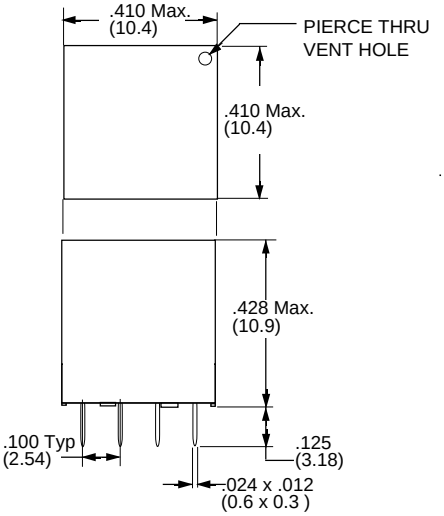
Drill Plan (TOP VIEW)



0.1 Grid Pattern

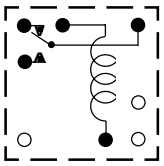
OUTLINE DIMENSIONS

Dimensions are in "INCHES" and (MILLIMETERS)

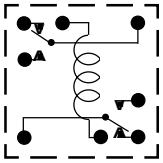


WIRING DIAGRAM

BOTTOM VIEW



SPDT



DPDT

SPECIFICATIONS CLASS 7

COIL

Coil Voltages

Pull-in Voltage:	80% of Nominal Voltage or less
Dropout:	10 % of Nominal Voltage or More
Max. allowed coil voltage:	120% of nominal voltage, duty cycle: 100%.
Nominal Power:	327 Milliwatts max., min sensitivity: 200 milliwatts.
Max. coil dissipation	0.75 watts.
Coil Resistance range:	±10%

CONTACTS

Contact Configuration:	SPDT, DPDT
Contact Rating:	SPDT: 50uA @ 50mV, 2A , 24VDC, 2A, 120VAC, DPDT: 50uA @ 50mV, 2A, 24VDC, 0.6A,100VAC,
Contact Material:	Gold Clad Silver Palladium.
Contact Resistance:	Initial 50 mΩ 100 Milliohms max @ 6VDC 10 Milliamps.

TIMING

Operate Time:	4.0 mS Max. @ Nominal Voltage. Typ.
Release Time:	5.0 mS Max. @ Nominal Voltage. Typ

DIELECTRIC STRENGTH

All Mutually Insulated Points:	500 VAC for 1 Minute, 1 Milliamp max. leakage, or 600VAC for 1 Second, 1 Milliamp leakage.
Surge Test:	Meets FCC 68.302 (1500V Surge) and 68.304 (1000V Dielectric).
Insulation Resistance:	500 VDC Exceeds 1000 Megohms.

TEMPERATURE

Operating:	-35˚C to +70˚C

VIBRATION RESISTANCE

Functional:	15 g's, 10 to 2000 Hz, No contact opening > 10 uS Max. contact chatter Destructive: 50 g'S.

SHOCK RESISTANCE

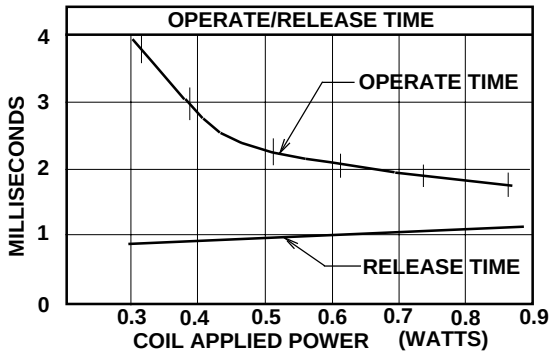
Functional	50g's 6mS half sine
Mechanical:	Destructive: 150 g's.

LIFE

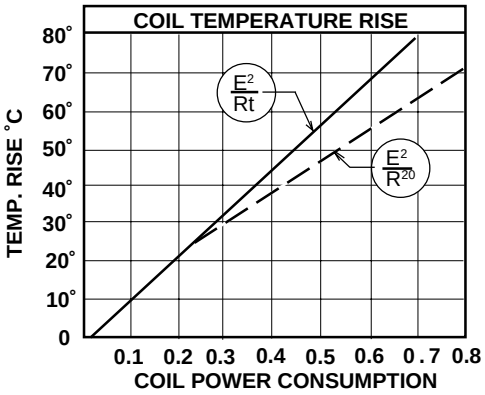
Mechanical:	100 Million Operations
Electrical:	100,000 Operations- 2 Amp 24VDC, 1.0 AMP 120VAC (Rated Load).

MISCELLANEOUS

Terminal Finish:	Terminals are solder Coated and Epoxy free to provide excellent solderability. Max. exposure to soldering temperature is 5 seconds @ 250˚C. After cleaning process, pierce a small hole in cover for venting.
Mounting Position:	Any
Enclosure:	UL, 94V-O Plastic, Epoxy Sealed.
Weight:	2.7 Grams . (.095 oz.)



After cleaning process, pierce 0.40 (1mm) hole in cover for venting.



$$\frac{E^2}{Rt} = \frac{\text{COIL VOLTAGE}}{\text{COIL RESIST. VALUE AFTER TEMP. WAS RAISED}}$$

$$\frac{E^2}{R^{20}} = \frac{\text{COIL VOLTAGE}}{\text{COIL RESIST. VALUE AT 20˚C}}$$

R.F. PERFORMANCE			
Frequency	**Insertion Loss (dB)**	**VSWR**	**Isolation (dB)**
(MHz)	**Common to N.O. or N.C. Contacts**	**Common to N.O. or N.C. Contacts**	**N.O. or N.C. Contacts to Coil**
10	0.05	1.03:1	65
50	0.10	1.04:1	50
100	0.30	1.05:1	42
200	0.50	1.06:1	35
300	0.60	1.07:1	31
400	0.65	1.08:1	29
500	0.75	1.10:1	28

Part Numbers	Contact Configuration	COIL - Measured at 25˚C			CROSS REFERENCE
		Nominal Input Voltage	Nominal Resis-tance (Ohms)	Nominal Power (mW)	COMMUNICATIONS INSTRUMENTS INC / MIDTEX (CII / MIDTEX)
W7PCX-1	SPDT	5 VDC	75	330	**MMS105**
W7PCX-3	SPDT	12 VDC	440	330	**MMS112**
W7PCX-4	SPDT	24 VDC	1550	370	**MMS124**
W7PCX-5	DPDT	5 VDC	75	330	**MMS205**
W7PCX-7	DPDT	12 VDC	440	330	**MMS212**
W7PCX-8	DPDT	24 VDC	1550	370	**MMS224**

PART NUMBERS SHOWN ALSO **AVAILABLE THRU STOCKING DISTRIBUTION.**