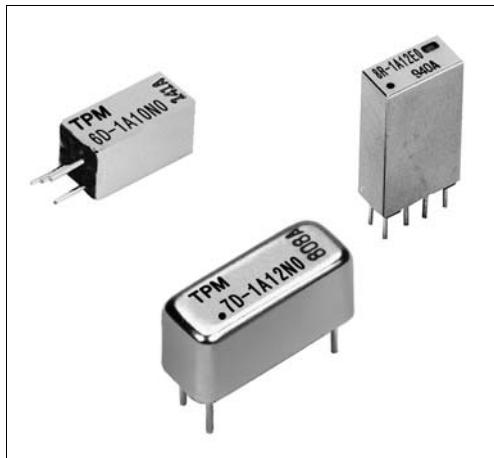


Ultraminiature Reed Relays



6D and 6R are ultra-compact and lightweight reed relays which has narrow mounting space and easy to use. Besides, they are optimal for compacting equipments.

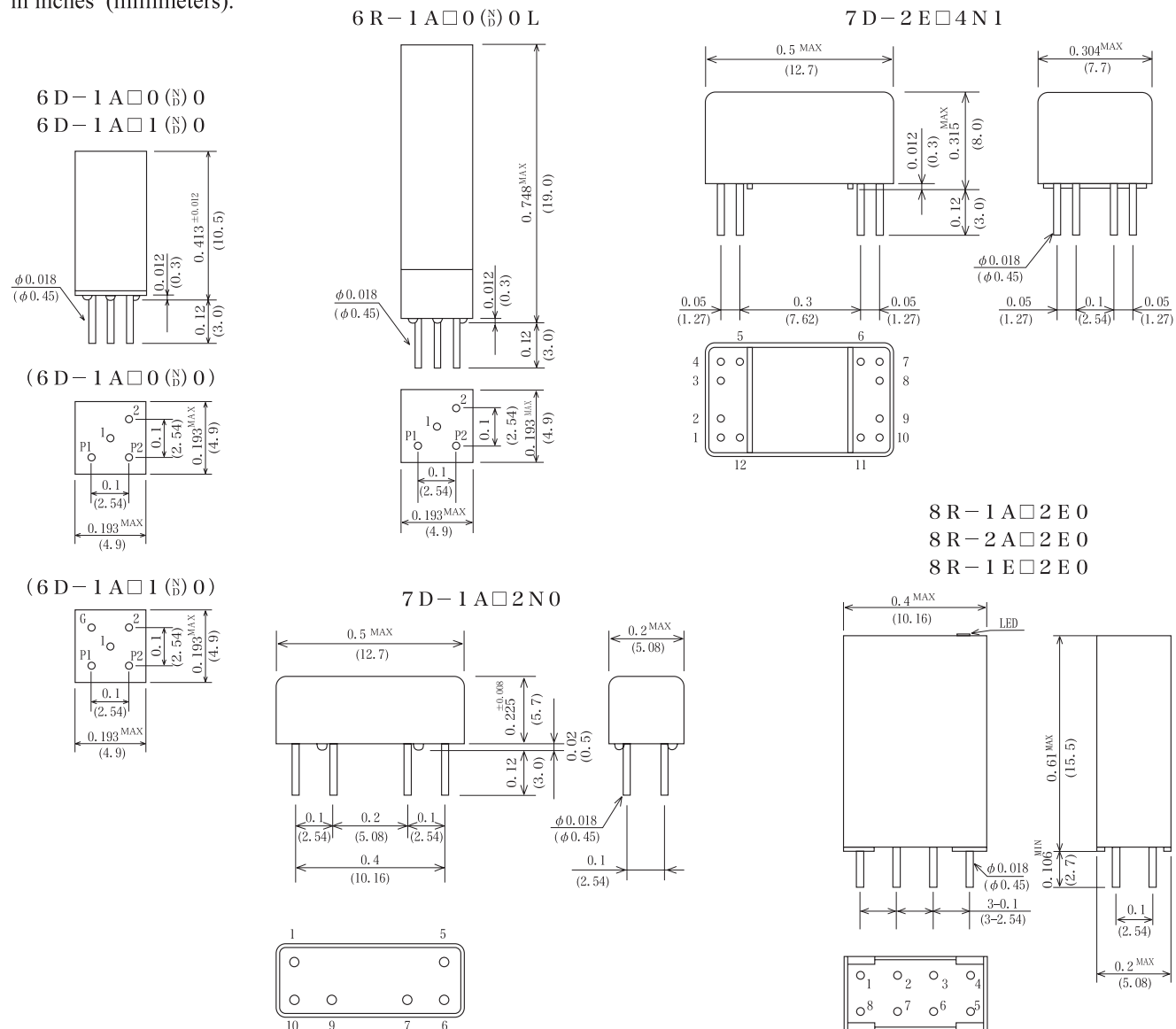
7D is the world's smallest miniature reed relays, which has high frequency characteristics with coaxial shield.

8R is excellent to debug/high density mounting with LED, which has narrow mounting space.

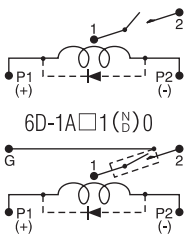
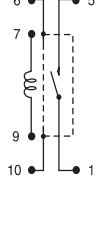
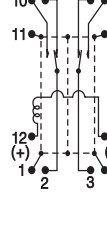
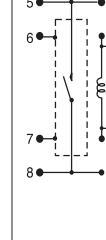
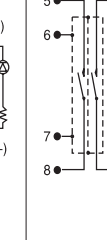
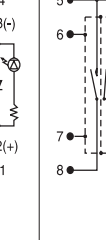
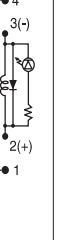
- Smallest square feet 4.9mm×4.9mm
- Available contact rating 5W and 10W
- Electrostatic Shield and Diode options
- Electric Magnetic Shield

Mechanical Dimensions

All dimensions are measured
in inches (millimeters).





6□, 7D, 8R Series			Model Number		Model Number		Model Number		Model Number		Model Number		Model Number								
			6D-1A□□□0		6R-1A□0□0L		7D-1A□2N0		7D-2E□4N1		8R-1A□2E0		8R-2A□2E0		8R-1E□2E0						
Parameters		Test Condition		Units		1 Form A		1 Form A		1 Form A		2 Form C		1 Form A		2 Form A		1 Form C			
Coil Specs																					
Nominal coil voltage				VDC		5		12		5		12		5		12		5		12	
Coil resistance		±10% at20°C		Ω		150		600		180		720		160		600		70		450	
Operating voltage		15°C~35°C		VDC Max		3.6		8.8		3.6		8.8		3.2		8.5		3.6		9.6	
Operating voltage range		15°C~35°C		VDC		—		—		—		—		—		—		3.6/5.5		9.6/13.2	
Release voltage		15°C~35°C		VDC Min		0.7		1.2		0.7		1.2		0.7		1.2		0.7		1.2	
Contact Ratings																					
Switching voltage		Max. DC/Peak AC resistance		Volts		50				200				50				200			
Switching current		Max. DC/Peak AC resistance		Amps		0.2		0.5		0.2		0.5		0.2		0.5		0.2		0.5	
Carry current		Max. DC/Peak AC resistance		Amps		0.5		1.0		0.5		1.0		0.5		1.0		0.5		1.0	
Contact rating		Max. DC/Peak AC resistance		Watts		5		10		5		10		5		10		5		10	
Life expectancy		1V. 10mA		×10 ⁶ Cyc		300		1500		300		1500		300		1500		300		1500	
Contact resistance		Maximum initial		mΩ		150		150		150		150		150		150		150		150	
Contact resistance stability		Maximum initial		mΩ		5.0		5.0		5.0		5.0		5.0		5.0		5.0		5.0	
Relay Specifications																					
Insulation resistance		Between all isolated pins at 100V 20°C 40%RH		Ω		10 ¹⁰		10 ¹⁰		10 ¹⁰		10 ¹¹		10 ¹⁰		10 ¹⁰		10 ¹⁰		10 ¹⁰	
Capacitance				pF-Max		0.7				0.25		1.3		0.5		0.5		0.5		0.5	
Across open contacts		Shield guarding																			
Contact to Shield		Contacts open,:Make-shield :Break-shield																			
Open contact to coil		Shield floating Shield guarding : Make-Coil :Break-Coil												1.6		1.6		1.6		3.0	
Dielectric strength		Between contacts		VDC		150		200		150		200		150		200		200		200	
		Contacts to shield, coil				150		200		200		150		200		200		200		200	
Operating time (Including. bounce)		At nominal coil voltage, 100Hz Square wave		msec		0.3		0.5		0.3		0.5		0.5		0.5		0.5		1.0	
Release time		Diode suppression		msec		0.3		0.5		0.1		0.5		0.5		0.5		0.5		1.0	
Environmental Ratings				Schematics		6D-1A□0(N)0 6R-1A□0(N)0L															
Measurement reference conditons																					
Temp. : 15°C~35°C Humidity : 25%~85%RH																					
Atmospheric pressure : 860~1060hPa																					
Storage temp. : -40°C~+80°C																					
Operating temp. : -20°C~+60°C																					
The operating and Release Voltage and the coil resistance are specified at 20°C. These values change approximately 0.4%/°C change in the ambient temperature.																					
Vibration : 20Gs to 2000Hz																					
Shock : 50Gs																					
						Bottom view															

Notes :

- Values are specified with a resistive load being applied. A contact protective circuit is required for C and L Type loads.
- The values of the operating time and release time however, are when the rated coil voltage is applied and a clamp diode is attached.
- Model 6D, 6R : Diode is connected to pin P1 (+) and pin P2 (-).
7D-2E series are polarity sensitive. Coil pin #1 must be positive (+). See the schematic.
Model 8R : Diode is connected to pin 2 (+) and pin 3 (-).
Correct coil polarity must be followed.

ORDERING CODE

6 □ - 1 A □ □ □ 0 □
(1) (4) (5) (6) (7)

7 D - 1 A □ 2 N 0
(4)

7 D - 2 E □ 4 N 1
(4)

8 R - □ □ □ 2 E 0
(2) (3) (4)

Example 6D-1A10D0

Represents Series 6D with 1 Form A, Dry Reed (Rhodium), Coil Voltage 5V and with Diode.

- Reed Switch Type
D-Dry Reed(Rhodium)
R-Dry Reed(Ruthenium)

- Number of capsule
1-1capsule
2-2capsules

- Contact Form
A-Form A
E-Multi-pole.
(Break-before-Make action on Form C)

- Coil Voltage
1-5VDC
2-12VDC

- Shield
0-No Shield
1-Electrostatic Shield (6R N/A)

- Diode Option
N-No Diode
D-With Diode

- L-6R series only