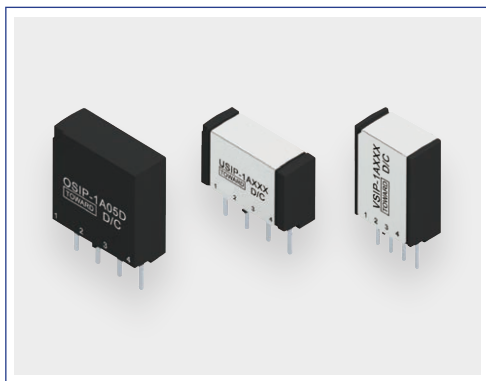




XSIP SERIES

ULTRA-SMALL SIP REED RELAY



KEY FEATURES

- OSIP is a 10W / 15W SIP relay (10.16 x 3.81 x 10.16 mm)
- USIP is a 3W / 10W SIP relay (10.16 x 3.81 x 6.73 mm)
- VSIP is the smallest 3W / 10W SIP relay (6.85 x 3.81 x 9.77 mm)
- Magnetic shielding reduces interaction
- Optional coil suppression diode protects coil drive circuits
- High insulation resistance $10^{12}\Omega$ minimum
- Molded thermoset body on integral lead frame design
- High reliability, hermetically sealed contacts for long life

ORDER CODE

XSIP - 1A XX X - XX

(a)

(b)

(c)

(d)

(e)

- (a) Model: USIP, OSIP, VSIP
- (b) Nominal Coil Voltage: 05 = 5VDC, 12 = 12VDC
- (c) Nil = Standard Type, D = Diode
- (d) Nil = Standard, I = High Power
- (e) Nil = Standard, A-Z: Special

COIL DATA-STANDARD TYPE (at 20°C)

RELAY MODEL	NOMINAL VOLTAGE DC $\pm 10\%$ [V]	COIL RESISTANCE $\pm 10\%$ [Ω]	MAX. OPERATE VOLTAGE [V]	MIN. RELEASE VOLTAGE [V]	MAX. ALLOWABLE VOLTAGE [V]
USIP & OSIP	5	500	3.75	0.4	6.5
	12	750	9	1.0	15
VSIP	5	400	3.75	0.5	6

CONTACT SPECIFICATIONS (at 20°C)

ITEM	PERFORMANCE CHARACTERISTICS		
Relay Model	USIP / USIP-I	OSIP / OSIP-I	VSIP / VSIP-I
Max. Switching Power	3W / 10W	10W / 15W	3W / 10W
Max. Switching Voltage	100V	200V	170V
Max. Switching Current	0.25A / 0.5A	0.5A / 1.0A	0.25A / 0.5A
Max. Carry Current	0.5A / 1.0A	0.5A / 1.0A	0.5A / 1.0A
Max. Static Contact Resistance	150m Ω / 200m Ω	120m Ω	120m Ω / 200m Ω
Max. Dynamic Contact Resistance	0.200 Ω	0.200 Ω	0.200 Ω
Dielectric Strength	Between Contacts	200VDC / 210VDC	150VDC / 210VDC
	Contacts to Coil	1500VDC	1500VDC

ELECTRICAL SPECIFICATIONS

ITEM	PERFORMANCE CHARACTERISTICS		
Relay Model	USIP / USIP-I	OSIP / OSIP-I	VSIP / VSIP-I
Capacitance Between Open Contacts	0.7pF	0.7pF	0.7pF
Open Contact to Coil	1.4pF	1.4pF	1.4pF
Operate Time (Incl. bounce - Typical)	0.35mS	0.35mS	0.2mS
Release Time (Typical)	0.1mS	0.1mS	0.1mS
Insulation Resistance	$10^{12}\Omega$	$10^{12}\Omega$	$10^{12}\Omega$

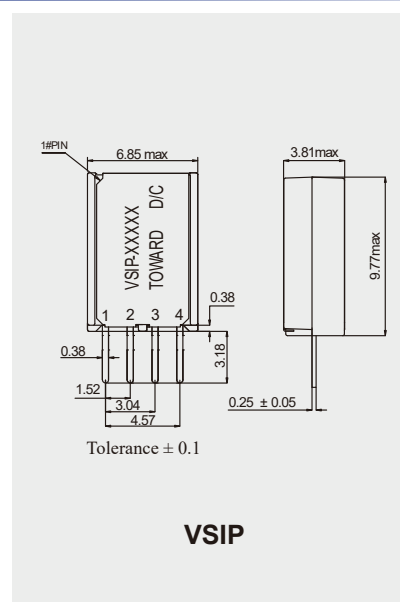
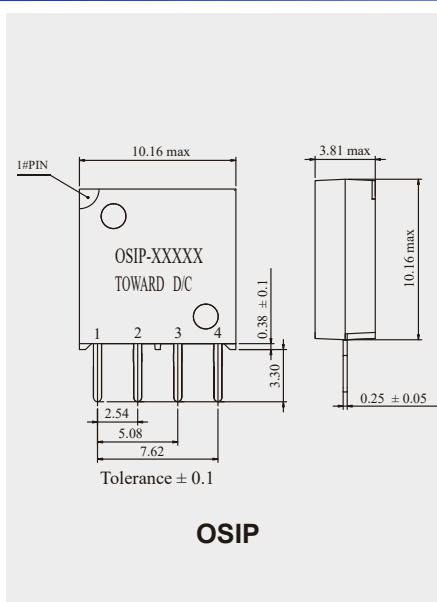
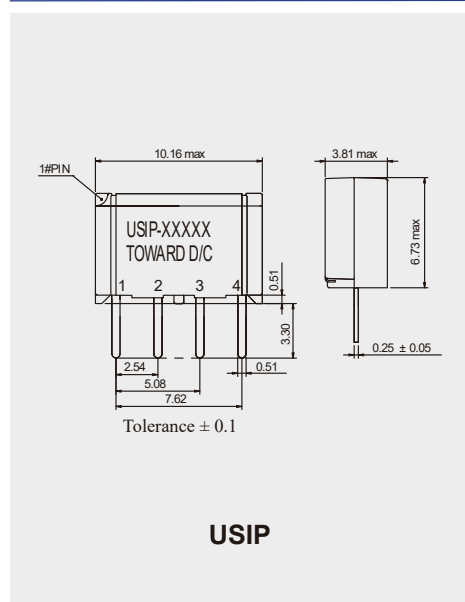
MECHANICAL SPECIFICATIONS

Relay Model	USIP / USIP-I VSIP / VSIP-I	OSIP / OSIP-I
Vibration	20G (2000Hz)	20G (2000Hz)
Shock	50G	50G

ENVIRONMENTAL

Relay Model	USIP / USIP-I VSIP / VSIP-I	OSIP / OSIP-I
Operating Temp.	-20°C~+85°C	-20°C~+85°C
Storage Temp.	-35°C~+100°C	-35°C~+100°C
Life Expectance (1.0V / 10mA)	2.5X10 ⁸ Ops.	1.0X10 ⁹ Ops.

DIMENSIONS (Unit: mm)



WIRING DIAGRAMS (Top View)

