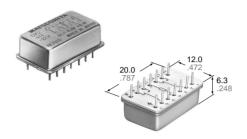
NAIS

HERMETIC SEAL ULTRA **SMALL RELAY WITH T0-5 SENSITIVITY AND RF SWITCHING CAPABILITY**

DX-RELAYS



• High radio frequency characteristics - isolation loss: 40 dB at 300 MHz

· Latching types available

• High sensitivity to be IC drivable: 60 mW pick-up only

• High insulation resistance

· High shock and vibration resistance thanks to unique balanced armature construction

Shock: 490 m/s² {50 G}

Vibration: 294 m/s² {30 G}, 10 to 55 Hz at double amplitude of 5 mm

mm inch

SPECIFICATIONS

001114010							
Arrangemer	nt			2 Form C			
Initial contact	ct bou	unce, i	max.	1 ms			
Contact pressure				Approx. 6 g .21 oz			
Initial contact resistance, max. (By voltage drop 6 V DC 1 A)				$60~\text{m}\Omega$			
Electrostation (Contact to			ce	Approx. 1 pF			
Thermal electromotive		Single	e side stable	35 μV			
force (at not inal coil volt		Latch	ing type	1 μV			
Nominal switching capacity				1 A 30 VDC, 0.5 A 110 VAC			
Rating (resistive)	Max. switching power			30 W DC, 50 VA			
	Max	. switc	hing voltage	30 V DC, 110 V AC			
	Max	. switc	ching current	1 A DC, 0.5 A AC			
Expected life (min. operations)	Med	hanica	al	3×10 ⁷			
		ctrical	1 A 30 V DC	2×10 ⁵			
	Elec		0.5 A 30 V DC	10 ⁶			
			0.1 A 12 V DC	10 ⁷			

Remarks

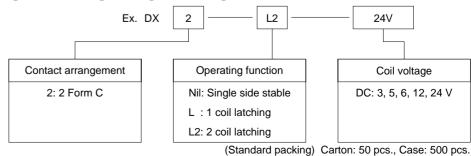
- Measurement at same location as "Initial breakdown voltage" section
- *2 Detection current: 10 mA
- *3 Excluding contact bounce time
- *4 Half-wave pulse of sine wave: 11ms; detection time: 10μs
- *5 Half-wave pulse of sine wave: 11ms
- *6 Detection time: 10μs
- *7 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT (Page 49)

Characteristics (25°C, 50% R. H.)

		(,	00,0111111			
Мах. оре	erating spe	eed		200 cps.		
Initial ins	ulation res	sistance	Min. 10,000 MΩ at 100 V DC			
Initial	Between	open c	ontacts	500 Vrms		
break-	Between	contac	t sets	500 Vrms		
down	Between	contac	t and coil	500 Vrms		
voltage*2	Between	live par	ts and ground	500 Vrms		
	time*3 (at		Approx. 2 ms			
Release	time(without	out dioc	le)* ³	Approx. 1 ms		
	nal voltage					
Set time	³ (latching	g)		Approx. 2 ms		
Reset tin	ne*3 (latch	ing)		Approx. 2 ms		
Minimum	n pulse wid	dth (late	ching)	1.6 ms		
High frequency characteristics				Approx. isolation 40 dB at 300 MHz (50 Ω)		
Tempera	ture rise		Max. 25°C at 120 mW operating power Max. 55°C at 500 mW operating power			
01 1		Functi	onal*4	Min. 490 m/s ² {50 G}		
Shock resistance		Destru	ıctive*5	Min. 490 m/s ² {50 G}		
Vibration resistance		Functi	onal* ⁶	196 m/s ² {20 G}, 10 to 55 Hz at double amplitude of 3.4 mm		
		Destru	ıctive	294 m/s ² {30 G}, 10 to 55 Hz at double amplitude of 5 mm		
	ns for ope		Ambient temperature	–55°C to +85°C –67°F to +185°F		
(Not freezing and consing at low temper			Humidity	5 to 85% R.H.		
Soldering	g tempera	ture	250°C (10s)m 300°C (5s), 350°C (3s)			
Unit weig	ght		Approx. 4g .14 oz			

TYPICAL APPLICATIONS ORDERING INFORMATION

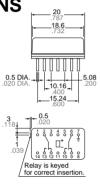
- 1. Communication equipment
- 2. Measuring equipment
- 3. Computer peripherals
- 4. Precision equipment for ships and airplanes

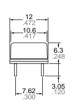


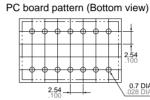
TYPES AND COIL DATA at 20°C 68°F

		Nominal	Pick-up	Drop-out	Nominal	Nominal	Coil	Max. allowable
Type Part No.	Part No	voltage,	voltage,	voltage,	operating	operating	resistance,	voltage,
	T dit 140.	V DC	V DC (max.)	V DC (min.)	current, mA	power, mW	Ω (±10%)	at 40°C, VDC
Single side	DX2-3V	3	2.1	0.3	42.8	128	70	6.6
	DX2-5V	5	3.5	0.5	25	125	200	11.0
	DX2-6V	6	4.2	0.6	21.4	128	280	13.2
stable	DX2-12V	12	8.4	1.2	12	144	1,000	26.4
D	DX2-24V	24	16.8	2.4	6	144	4,000	53.0
Type Part I		Nominal		Reset	Nominal	Nominal	Coil	Max. allowable
	Part No.	voltage,	Set voltage,	voltage,	operating	operating	resistance,	voltage,
		V DC	V DC (max.)	V DC (max.)	current, mA	power, mW	Ω (±10%)	at 40°C, VDC
1 coil latching	DX2-L-3V	3	2.1	2.1	42.8	128	70	6.6
	DX2-L-5V	5	3.5	3.5	25	125	200	11.0
	DX2-L-6V	6	4.2	4.2	21.4	128	280	13.2
	DX2-L-12V	12	8.4	8.4	12	144	1,000	26.4
	DX2-L-24V	24	16.8	16.8	6	144	4,000	53.0
2 coil D D D	DX2-L2-3V	3	2.1	2.1	85.7	257	35	4.6
	DX2-L2-5V	5	3.5	3.5	50	250	100	7.8
	DX2-L2-6V	6	4.2	4.2	42.8	257	140	9.3
	DX2-L2-12V	12	8.4	8.4	24	288	500	18.6
	DX2-I 2-24V	24	16.8	16.8	12	288	2 000	37.2

DIMENSIONS



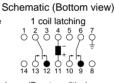




mm inch

Tolerance: ±0.1 ±.004

Single side stable 1 2 3 4 5 6 7 0 0 0 0 0 0 0 0 (Deenergized condition)





(Terminals 1, 3, 5, 8, 14 are idle terminals.)

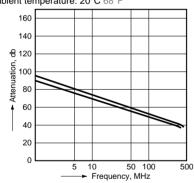
(Terminals 1, 3, 5, 8, 14 are idle terminals.)

(Reset condition) (Terminals 1, 8, 14 are idle terminals.)

REFERENCE DATA

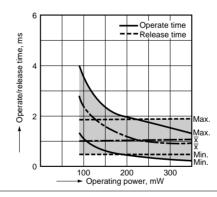
1. High frequency characteristics (Isolation) (50 Ω)

Sample: 10 pcs. DX2-12V Ambient temperature: 20°C 68°F

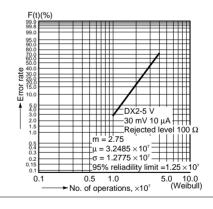


2. Operate/release time

General tolerance: ±0.3 ±.012



3. Contact reliability



4. Thermal electro motive force Sample: 5 pcs. DX2-5V Coil applied V: 100%V

Ambient atmosphere: 20°C 68°F 60% R. H.

