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Panasonic Electric Works NL6EBX-2M-DC12V

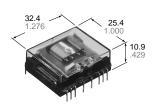
For any questions, you can email us directly: sales@integrated-circuit.com





6PDT FLATPACK 2AMP DIL RELAY

NL-RELAYS



NLE Amber Relays

mm inch

FEATURES

- Space saving dimensions 25.4 mm \times 32.4 mm \times 10.9 mm
 - 1.000 inch× 1.276 inch× 0.429 inch
- Latching types available
- Low operating power 400 mW (single side stable)

Transistor compatible

- High breakdown voltage for transient protection 1,000 Vrms between open contacts, contact sets, and 1,500 V FCC surge between open contacts
- Soldering flux inflow completely prevented

SPECIFICATIONS

Contacts

Arrangemen	t**1	6 Form C						
Contact mate	erial	gold-clad silver**2						
Initial contact (By voltage of		100 mΩ						
	Nominal sv	vitching capacity	2 A 30 V DC					
Rating	Max. switch	ning power	60 VA, 60 W					
(resistive)	Max. switch	ning voltage	125 V AC, 30 V DC					
	Max. switch	ning current	2 A					
Expected life (min. operations)	Mechanica	I	5×10 ⁷					
	Electrical (resistive)	2 A 30 V DC	5×10⁵					
		0.6 A 100 V DC	106					

^{**1} MBB contact types also available: 2 MBB, 4 MBB & 6 MBB

Coil (polarized) (at 25°C 77°F)

Minimum operating power	Approx. 460 mW		
Nominal operating power	up to 60 V DC: Approx. 720 mW 110 V DC: Approx. 900 mW		
Minimum set and reset power	Approx. 1,000 mW		
Nominal set and reset power	Approx. 1,600 mW		

- Specifications will vary with foreign standards certification ratings.
- *1 Measurement at same location as "Initial breakdown voltage" section
- *2 Detection current: 10 mA
- *3 Excluding contact bounce time
- \star_4 Half-wave pulse of sine wave: 11ms; detection time: 10 μs
- *5 Half-wave pulse of sine wave: 6ms
- *6 Detection time: 10μs
- *7 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT (Page 61).

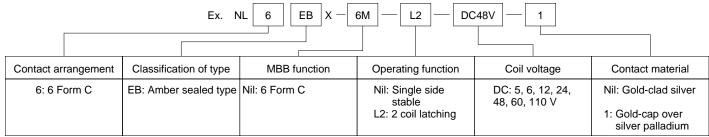
Characteristics

Maximum operating speed				50 cps		
Initial insulat	ion resista	nce*	1	Min. 100 MΩ at 500 V DC		
Breakdown voltage*2	Between open contacts, contact sets			1,000 Vrms		
	Between contacts and coil			2,000 Vrms		
Operate time	*3 (at nom	inal	voltage)	Max. 15 ms (Approx. 10 ms)		
Release time (without diode)*3 (at nominal voltage)				Max. 10 ms (Approx. 5 ms)		
Temperature rise				Max. 65°C with nominal coil voltage and at switching current 2 A		
Shock resistance		Functional*4		Min. 147 m/s ² {15 G}		
		Destructive*5		Min. 980 m/s ² {100 G}		
Vibration resistance		Functional*6		58.8 m/s ² {6 G}, 10 to 55 Hz at double amplitude of 1 mm		
		Destructive		117.6 m/ s ² {12 G}, 10 to 55 Hz at double amplitude of 2 mm		
Conditions for operation, transport and storage* ⁷ (Not freezing and con- densing at low tempera- ture)			Ambient temp.	-40°C to +55°C -40°F to +131°F		
		1-	Humidity	5 to 85% R.H.		
Unit weight				Approx. 17 g.60 oz		

TYPICAL APPLICATIONS

Telecommunications, security equipment, detection systems.

ORDERING INFORMATION



⁽Notes) 1. For UL/CSA or VDE recognized types, add suffix UL/CSA or VDE.

2. Standard packing Carton: 20 pcs. Case: 200 pcs.

^{**2} Gold capped silver-palladium contact also available

Distributor of Panasonic Electric Works: Excellent Integrated System Limited

Datasheet of NL6EBX-2M-DC12V - RELAY GEN PURPOSE 6PDT 2A 12V

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

NL

TYPES AND COIL DATA (at 20°C 68°F)

Single side stable

	Coil voltage, V DC			Coil	Nominal	
Part No.	Pick-up (max.)	Drop-out (min.)	Maximum allowable	resistance, Ω (±10%)	operating power, mW	
NL6EBX-DC5V	4.0	0.5	6.0	34.7		
NL6EBX-DC6V	4.8	0.6	7.2	50		
NL6EBX-DC12V	9.6	1.2	14.4	200	720	
NL6EBX-DC24V	19.2	2.4	28.8	800	720	
NL6EBX-DC48V	38.4	4.8	57.6	3,200		
NL6EBX-DC60V	48	6.0	72	5,000		
NL6EBX-DC110V	88	11.0	132	13,467	898	

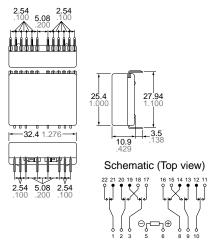
2 coil latching

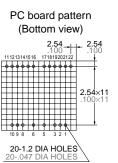
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		Coil voltage,* V DC			Coil	Nominal
Part No.		Set (max.)	Reset (max.)	Maximum allowable	resistance, Ω (±10%)	operating power, mW
	NL6EBX-L2-DC5V	4.0	4.0	5.5	15.6	
	NL6EBX-L2-DC6V	4.8	4.8	6.6	22.5	
	NL6EBX-L2-DC12V	9.6	9.6	13.2	90	
	NL6EBX-L2-DC24V	19.2	19.2	26.4	360	1,600**
	NL6EBX-L2-DC48V	38.4	38.4	52.8	1,440	
	NL6EBX-L2-DC60V	48	48	66	2,250	
	NL6EBX-L2-DC110V	88	88	121	7,563	

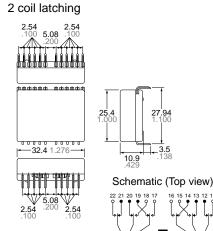
See NOTE 2

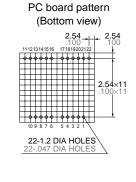
DIMENSIONS







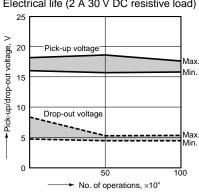


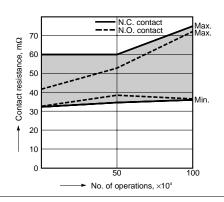


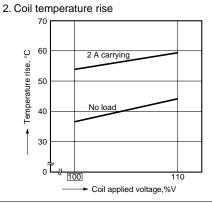
General tolerance: ±0.3 ±.012

REFERENCE DATA

1. Electrical life (2 A 30 V DC resistive load)



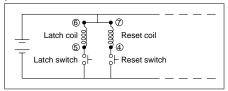




NOTES

On two coil latching relays

1. To maintain insulation between coils, terminals 6 and 7 should be connected to provide common return.



- 2. Two coil latching relays are for intermittent operation only. Power should be applied to coils for no more than two minutes; continuous operation may burn out the coils.
- 3. Position of MBB contacts 2M (2 Form D 4 Form C): 1-21-22, 10-11-12 4M (4 Form D 2 Form C): 1-21-22, 2-20-18, 9-13-15, 10-11-12

For Cautions for Use, see Relay Technical Information

Two coil latching series are for intermittent operation only. Power should be applied to coil continuously for no more than two minutes