ME-12B MASSUSE RELAY

FEATURES

- Outline dimensions: 14 (L) x 9 (W) x 5 (H)
- High contact capacity 1A 30VDC; Low power consumption
- Single side table and latching type available
- Single and double coil winding type available
- Surge withstand voltage up to 1500V, meets FCC Part 68
- UL and CUL Approval, File No.: E179936

CONTACT DATA

Contact form	2C
Contact resistance (Initial)	70mΩ Max.
Contact rating - Resistive	1A 30VDC 0.5A 125VAC
Max. switching power	30W / 62.5VAC
Max. switching current	1A
Max. switching voltage	110VDC / 250VAC
Min. switching load	10μA 10mVDC (reference value)
Contact material	Ag-Pd

CHARACTERISTICS

Insulation resistance	1000MΩ at 500VDC
Dielectric strength	1000VAC, 1 min. between coil & contacts 750VAC, 1 min. between open contacts 1000VAC, 1 min. between contact poles
Surge withstand voltage Between open contacts (10×160μs)	1500VAC (FCC part 68)
Operate time (set time)	3ms max (at nominal voltage)
Release time (Reset time)	3ms max (at nominal voltage)
Vibration resistance	Functional: 3mm D.A. 10 to 55Hz Destructive: 5mm D.A. 10 to 55Hz
Shock resistance	Functional: 490m/s^2 Destructive: 980m/s^2
Temperature range	- 40℃ to + 85℃
Humidity	98% RH, 40℃
Life expectancy - Electrical ((Resistive load) - Mechanical	 2 x 10^5 operations at 1A 30VDC 1 x 10^5 operations at 0.5A 125VAC 1 x 10^8 operations

COIL SPECIFICATIONS – 1. Single side stable

Nominal voltage (VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Coil resistance (Ω±10%)	Power consumption(W)	Max. allow voltage (VDC)
1.5	1.13	0.15	16	0.14	2.25
2.4	1.8	0.24	41.3	0.14	3.6
3	2.25	0.3	64.3	0.14	4.5
4.5	3.38	0.45	145	0.14	6.7
5	3.75	0.5	178	0.14	7.5
6	4.5	0.6	257	0.14	9
9	6.75	0.9	579	0.14	13.5
12	9	1.2	1028	0.14	18
24	18	2.4	2880	0.20	36

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2. Latching – 1 coil

Nominal voltage (VDC)	Set, reset voltage (Max.)	Coil resistance (Ω±10%)	Power consumption(W)	Max. allow voltage (VDC)
1.5	1.13	22.5	0.10	2.25
2.4	1.8	58	0.10	3.6
3	2.25	90	0.10	4.5
4.5	3.38	203	0.10	6.7
5	3.75	250	0.10	7.5
6	4.5	360	0.10	9
9	6.75	810	0.10	13.5
12	9	1440	0.10	18
24	18	3840	0.15	36

3. Latching – 2 coil

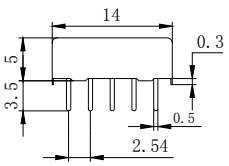
Nominal voltage (VDC)	Set, reset voltage (Max.)	Coil resistance (Ω±10%)	Power consumption(W)	Max. allow voltage (VDC)
1.5	1.13	11.3	0.20	2.25
2.4	1.8	29	0.20	3.6
3	2.25	45	0.20	4.5
4.5	3.38	101	0.20	6.7
5	3.75	125	0.20	7.5
6	4.5	180	0.20	9.0
9	6.75	405	0.20	13.5
12	9	720	0.20	18
24	18	1290	0.30	36

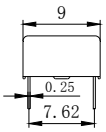
ORDERING INFORMATION

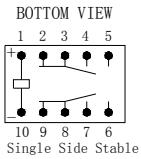
ME-12B - L1 12 S R

Model No.	Sort	Coil Voltage	Kind of Terminals	Packing style
ME-12B	Nil: Single Side Stable L1: 1 Coil Latching L2: 2 Coil Latching	1.5VDC,2.4VDC,3VDC, 4.5VDC, 5VDC, 6VDC, 9VDC, 12VDC, 24VDC	Nil: DIP Terminal S: Standard SMT Terminal	R: tape and reel packing (Only for SMT type) Nil: Tube packing

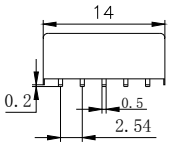
DIMENSIONS (unit: mm)

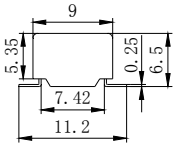


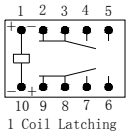




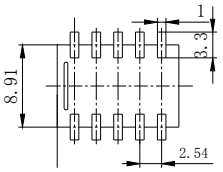
SURFACE MOUNT TERMINAL



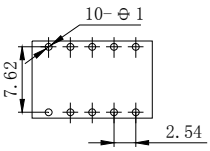


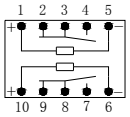


MOUNTING PAD LAYOUT



PCB LAYOUT





Disclaimer: All the specifications are subject to change without notice.