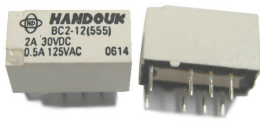


* High dielectric withstand of 2,000VAC (Between coil and contacts) * High contact capacity: 2A 30VDC * Surge withstand voltage up to 2,500VAC (Between coil and contacts) * SMT type available * Bifurcated contacts * Single side stable and & latching type available		

BC2 RELAYS

1. Contact Data

Contact Arrangement		DPDT (2 Form C)
Initial Contact Resistance		50m ohm (Max)
Contact Material		AgNi + Au plated
Rated load (Res. Load)		2A 30VDC, 0.5A 125VAC
Max. switching power		60W, 62.5VA
Max. switching Voltage		220VDC, 250VAC
Max. switching current		2A
Min. Applicable Load		10mV 10 micro A
Life Expectancy	Electrical	1 x 10 ⁵ ops (2A 30VDC) 5 x 10 ⁵ ops (1A 30VDC) 1 x 10 ⁵ ops (0.5A 125VAC)
	Mechanical	1 x 10 ⁸ ops (at 0.5A 125VAC)

2. Characteristics

Initial Insulation resistance		1000M ohm 500VDC
Dielectric strength between	Coil and contacts	2,000VAC 1min.
	Open contacts	1,000VAC 1min.
	Contact sets	1,500Vrms, 1min
Surge withstand voltage		Between open contacts(10x160μs) : 1,500VAC (FCC part 68) Between coil and contacts(2x10μs) : 2,500VAC (Bellcore)
Operate time (nominal voltage)		Max. 4ms
Release time (nominal voltage)		Max. 4ms
Ambient temperature		-40°C~+85°C
Humidity		35% to 85% R.H.
Vibration resistance	Functional	10 to 55Hz 3.3mm DA
	Destructive	10 to 55Hz 5mm DA
Shock resistance	Functional	750m/s ² (75g)
	Destructive	1,000m/s ² (100g)
Termination		DIP, SMT
Unit weight		Approx. 2g
Construction		Sealed IP67

3. Coil

Coil power	Single side stable	140mW
	Latching 1 coil	100mW
	Latching 2 coil	200mW
Temperature Rise		Max. 50°C

Coil Voltage

See coil data table

4. Coil Data

Single side stable

standard(140mW) 20°C

Nominal Voltage (VDC)	Nominal current (mA)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Coil resistance Ω (10%)	Nominal Power (mW)	allowable Voltage VDC(Max.)
1.5	93.8	1.13	0.15	16	140	2.2
3	46.7	2.25	0.3	64.3	140	4.5
4.5	31	3.38	0.45	145	140	6.7
5	28.1	3.75	0.5	178	140	7.5
6	23.3	4.5	0.6	257	140	9
9	15.5	6.75	0.9	579	140	13.5
12	11.7	9	1.2	1,028	140	18
24	5.8	18	2.4	4,114	140	36
48	5.6	36	4.8	8,533	270	57.6

Latching (1 coil)

standard(100mW) 20°C

Nominal Voltage (VDC)	Nominal current (mA)	Set/Reset voltage VDC (Max.)	Coil resistance Ω (10%)	Nominal Power (mW)	allowable Voltage VDC(Max.)
1.5-L1	66.7	1.13	22.5	100	2.7
3-L1	33.3	2.25	90	100	5.4
4.5-L1	22.2	3.38	203	100	8.1
5-L1	20	3.75	250	100	9
6-L1	16.7	4.5	360	100	10.8
9-L1	11.1	6.75	810	100	16.2
12-L1	8.3	9	1,440	100	21.6
24-L1	4.2	18	5,760	100	43.2

Latching (2 coil)

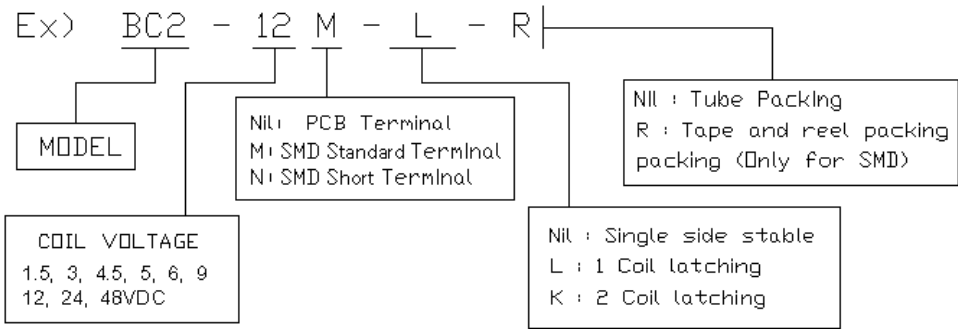
standard(200mW) 20°C

Nominal Voltage (VDC)	Nominal current (mA)	Set/Reset voltage VDC (Max.)	Coil resistance Ω (10%)	Nominal Power (mW)	allowable Voltage VDC(Max.)
1.5-L2	133.9	1.13	11.2	200	2.7
3-L2	66.7	2.25	45	200	5.4
4.5-L2	44.5	3.38	101	200	6.7
5-L2	40	3.75	125	200	7.5
6-L2	33.3	4.5	180	200	9.0
9-L2	22.2	6.75	405	200	13.5
12-L2	16.7	9	720	200	18
24-L2	8.3	18	2,880	200	36

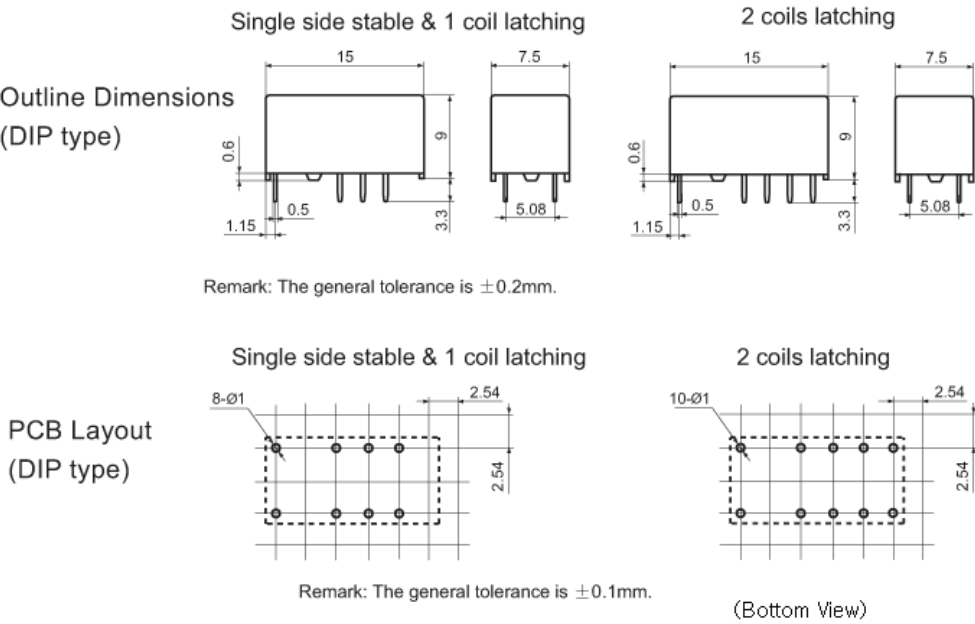
5. Safety Approval Rating

UL&CUR	2A 30VDC 0.5A 125VAC
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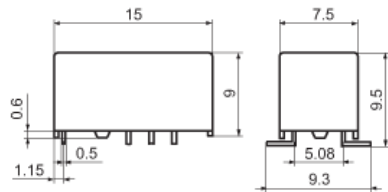
6. Ordering Information



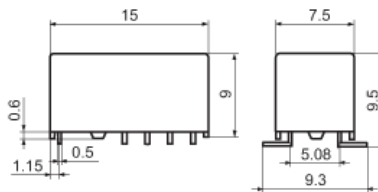
7. Overall And Mounting Dimensions



Standard SMT Single side stable & 1 coil latching

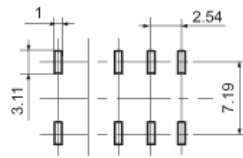


2 coils latching



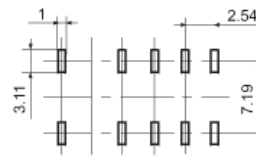
PCB Layout

Single side stable & 1 coil latching



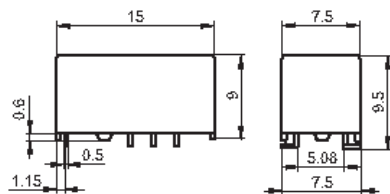
(Bottom view)

2 coils latching

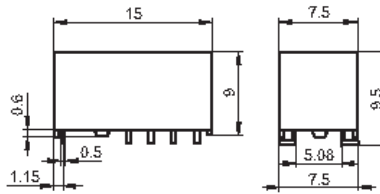


Short terminal SMT

Single side stable & 1 coil latching

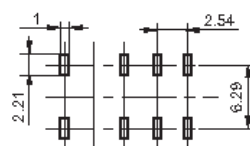


2 coils latching

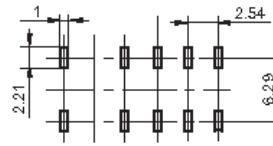


PCB Layout

Single side stable & 1 coil latching

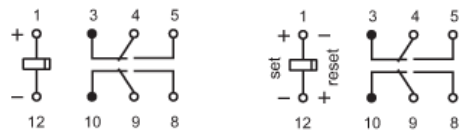


2 coils latching



Wiring Diagram

Single side stable 1 coil latching

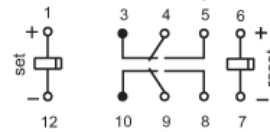


No energized condition

reset condition

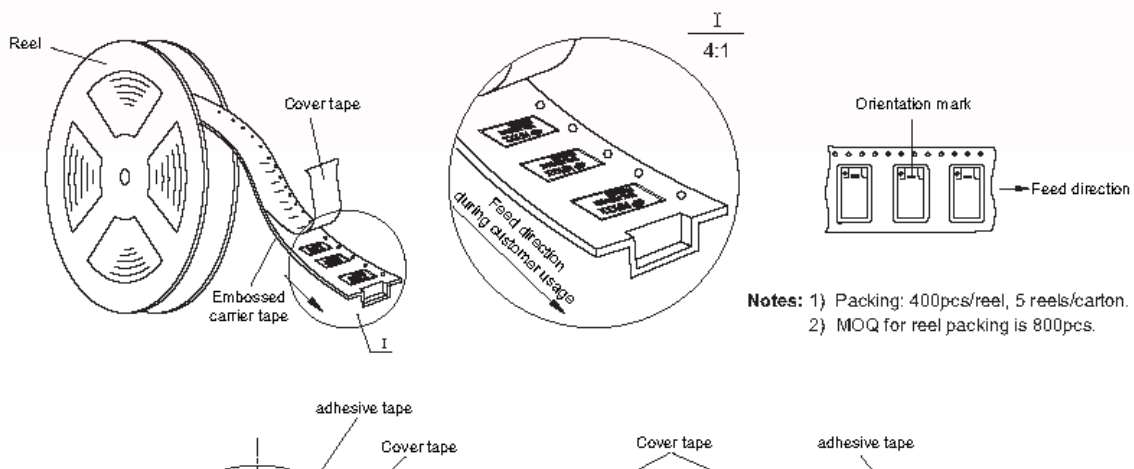
(Bottom View)

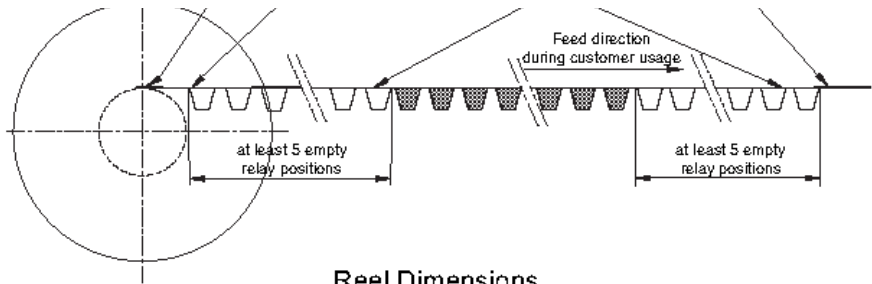
2 coils latching



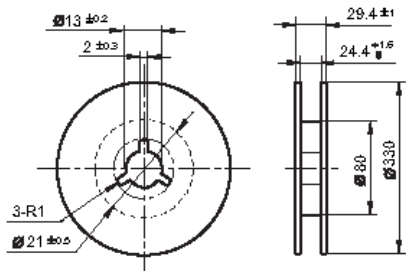
reset condition

Direction of Relay Insertion

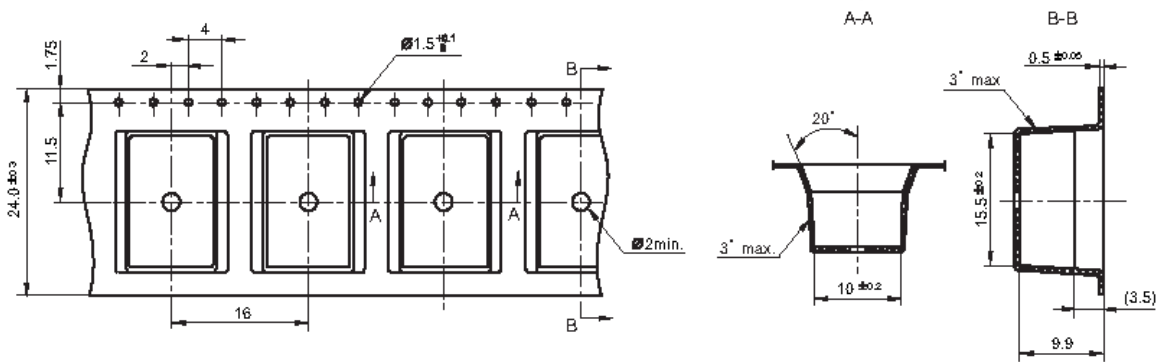




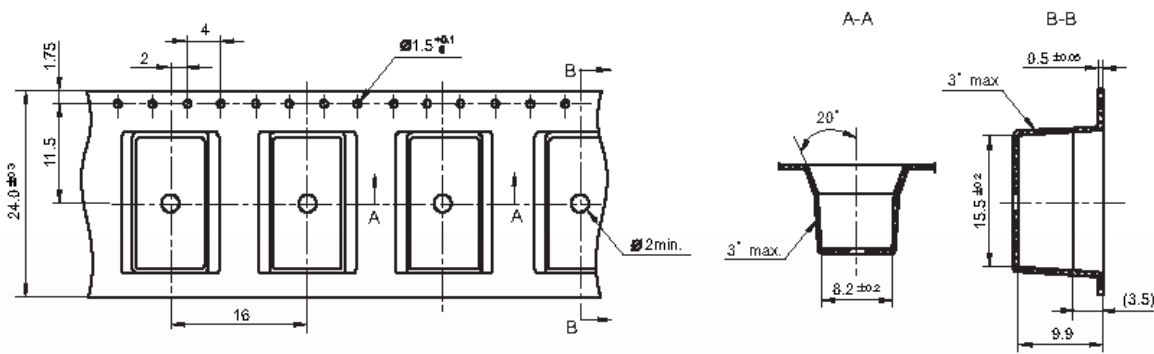
Reel Dimensions



Tape Dimensions (Mtype: Standard SMT)



Tape Dimensions (N type: Short terminal SMT)



8. Characteristics Curve

