

BC2

■ FEATURES

- * 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



■ 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)

■ GENERAL DATA

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

■ 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

■ SAFETY APPROVAL RATING

UL&CUR	2A 30VDC 0.5A 125VAC
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■ COIL DATA

Single side stable

standard(140mW) 20°C

Norminal Voltage (VDC)	Norminal 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

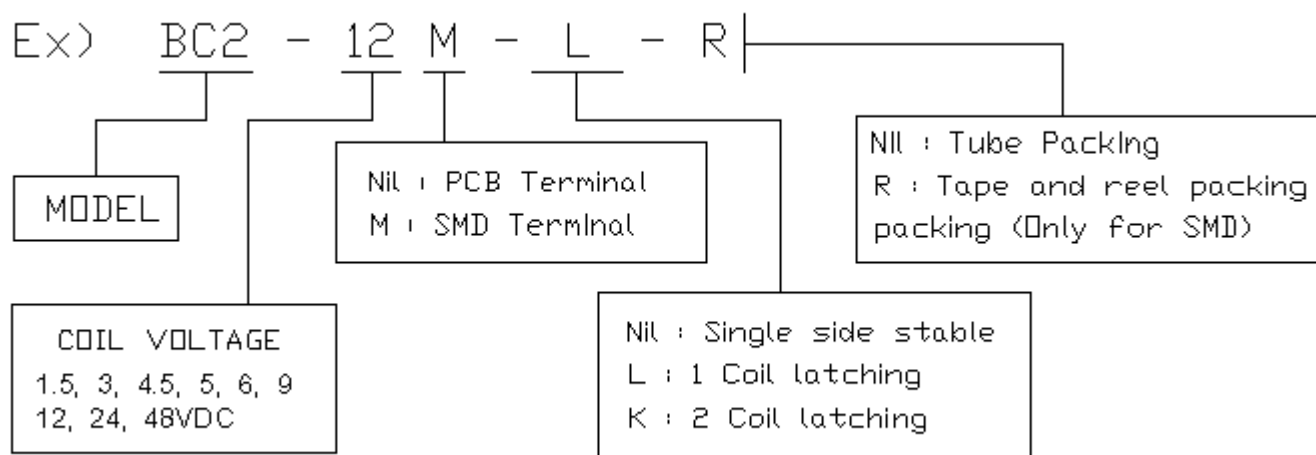
Norminal Voltage (VDC)	Norminal current (mA)	Set/Reset voltage VDC (Max.)	Coil resistance Ω (10%)	Nominal Power (mW)	allowable Voltage VDC(Max.)
1.5-L1	66.7	1.13	22.5	100	2.7
3-L1	33.3	2.25	90	100	5.4
4.5-L1	22.2	3.38	203	100	8.1
5-L1	20	3.75	250	100	9
6-L1	16.7	4.5	360	100	10.8
9-L1	11.1	6.75	810	100	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)

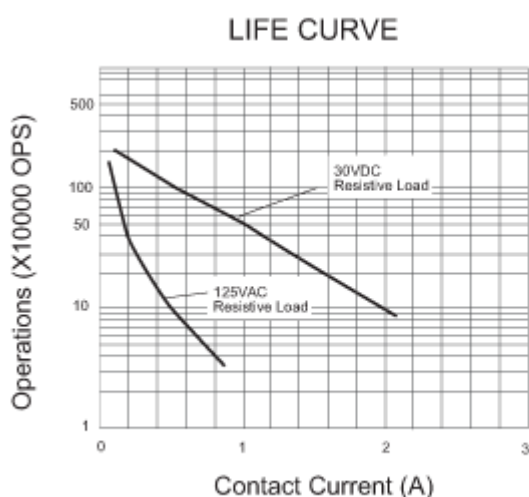
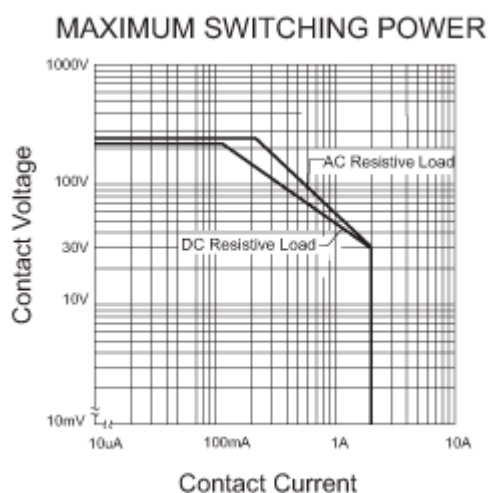
standard(200mW) 20°C

Normal Voltage (VDC)	Normal 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

■ ORDERING INFORMATION

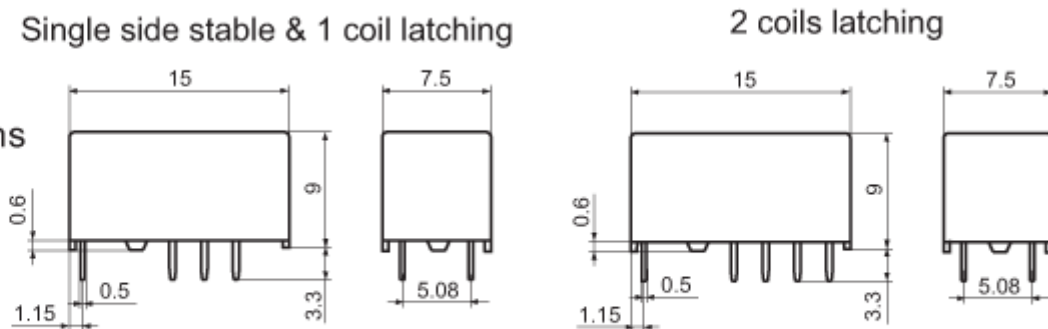


■ CHARACTERISTICS CURVE



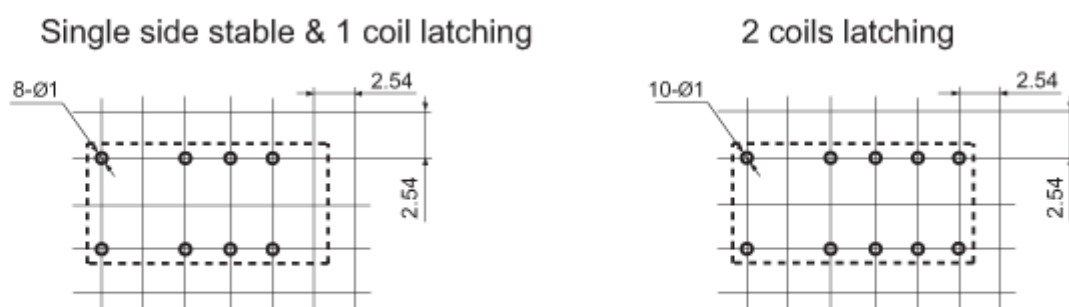
■ OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions
(DIP type)



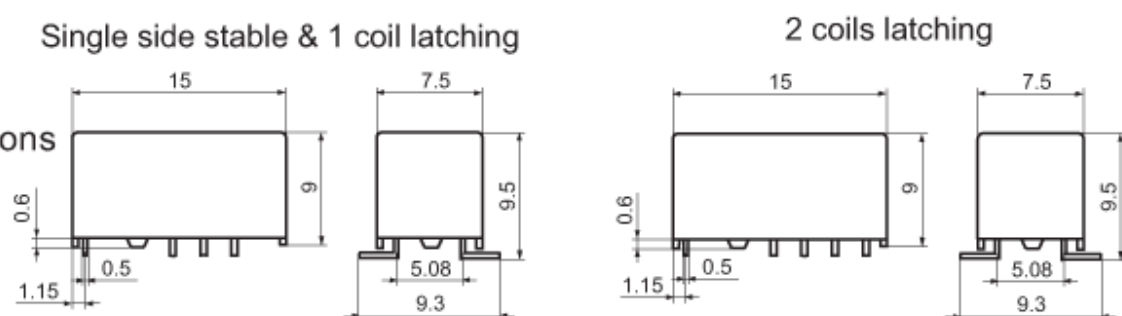
Remark: The general tolerance is $\pm 0.2\text{mm}$.

PCB Layout
(DIP type)



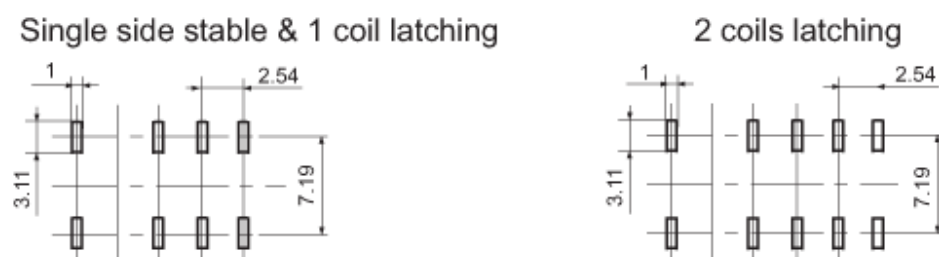
Remark: The general tolerance is $\pm 0.1\text{mm}$.

Outline Dimensions
(SMT type)



Remark: The general tolerance is $\pm 0.2\text{mm}$.

PCB Layout
(SMT type)



Wiring Diagram

