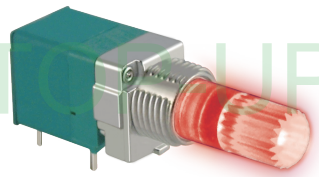
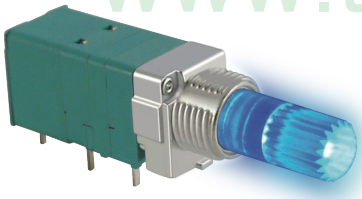
9mm Size Series Potentiometer
With Luminous Shaft Type

TOP-UP





▲FEATURE
- Outset molding with resin around the resistor prevents flux build-up.
- Red、green、blue and orange LED colors are available.

▲APPLICATIONS
- Ideal for volume, tone and balance control of car audio equipment.

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

Common Specifications

Model	Without Switch	With Switch
Total resistance (KΩ)	5, 10, 20, 50, 100, 250	
Total resistance tolerance	±20%	
Resistance taper	A, B,C, D, E, K, W	
Rated power	0.05W	
Maximum operating	50V AC 10V DC	
Total rotational angle	300±5°	
Rotational torque	10~80gf.cm	20~120gf.cm
Rotation stopper strength	3Kgf.cm	
Rotation life (cycle)	15,000 cycles	

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

Switch Specifications

Model	Without Switch	With Switch
Switch rating	—	D.C. 16V 3A
Switch cntact resistance	—	100 mΩ Max
Switch operating method	—	Rotary type
Switch contact arrangement	—	S.P.S.T
Switch angle	—	50° Max
Switch operating force	—	500gf.cm Max
Switch life	—	10,000 cycles

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

9ML Series Code Explanation

9ML	□□	2	RS	H	5	B	9	-	B	-	20	K	-	B	50K	-	□□□
1	2	3	4	5	6	7	8		9		10	11		12	13		14

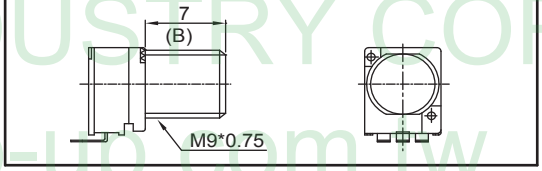
TOP-UP INDUSTRY CORP.
www.top-up.com.tw

1. Product Lines of 9ML (9mm With Luminous Shaft Type)
2. With LED

Single Color	Code	B		R		O		G		L	
	Color	Blue		Red		Dark Orange		Green		Lawngreen	
Dual Color	Code	BG		BO		GR		BR		GO	
	Color	Blue	Green	Blue	Orange	Green	Red	Blue	Red	Green	Orange

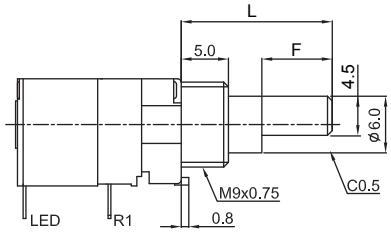
3. Number of Unit : 1 - Single Unit, 2 - Dual Unit
4. Type of Switch : RS - Rotary Type
5. Horizontal(H) Type or Vertical(V) Type
6. Bushing Length : 5 - 5mm
7. With Bushing : B (Standard Type)
8. Bushing Diameter : 9 - M9*0.75

Without Bracket Series



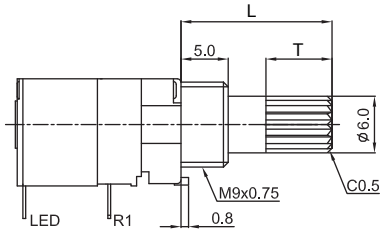
9. Type of Terminal : B - 3.5mm Horizontal Type
10. Shaft Length
11. Type of Shaft

F - Type



L	15	20
F	7	7

K - Type



L	16
T	7

12. Type of Taper
13. Resistance Value
14. Serial No.

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

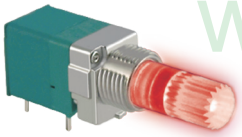
9mm Size Series Potentiometer

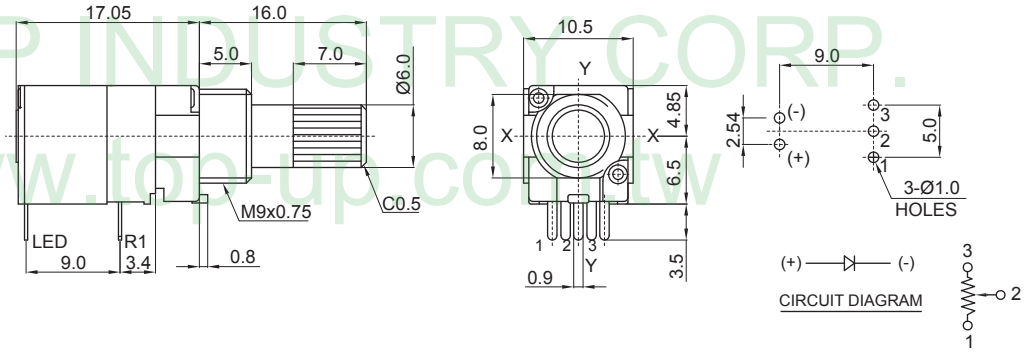
With Luminous Shaft Type

TOP-UP

9ML□1H5B9-B

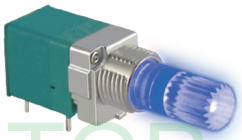
Single Color LED
Single unit

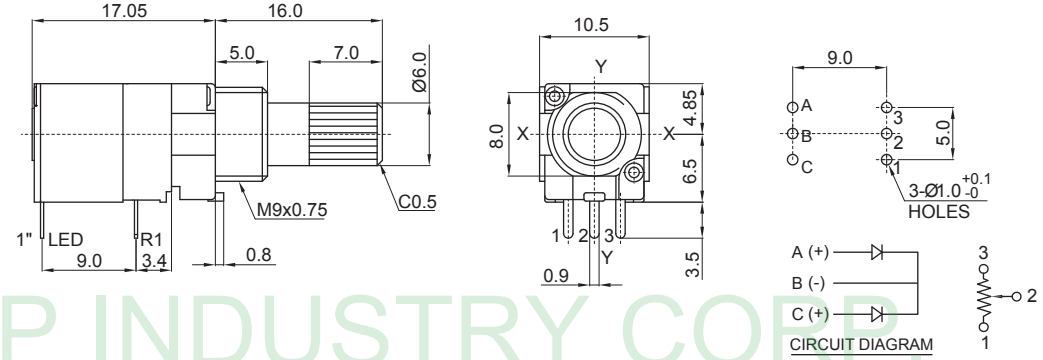




9ML□□1H5B9-B

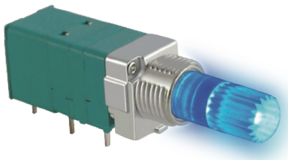
Dual Color LED
Single unit

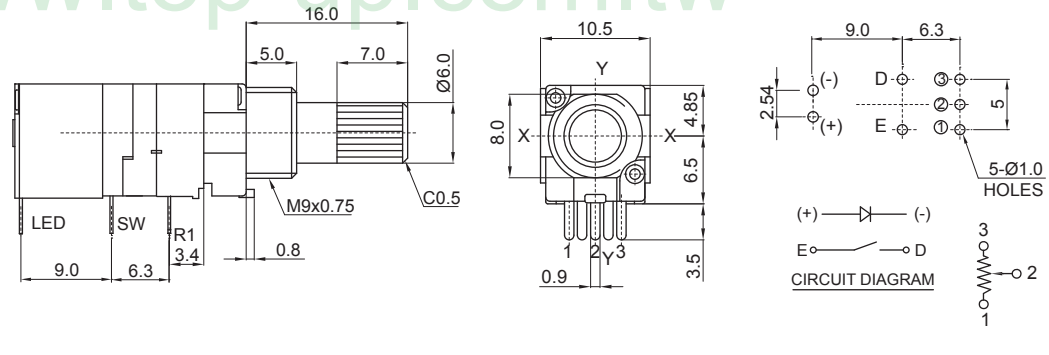




9ML□1RSH5B9-B

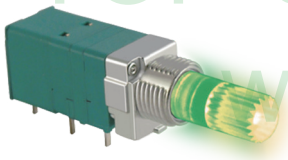
Single Color LED
Single unit, With switch

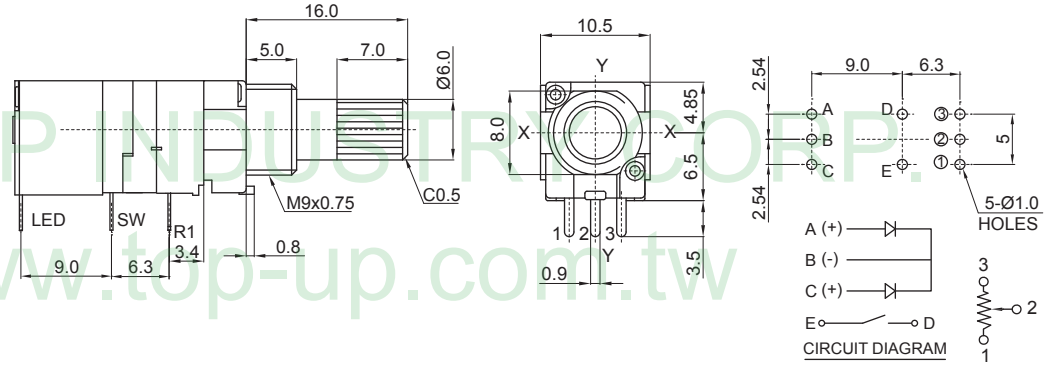




9ML□□1RSH5B9-B

Dual Color LED
Single unit, With switch



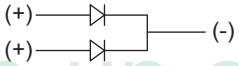


TOP-UP INDUSTRY CORP.
www.top-up.com.tw

9mm Size Series Potentiometer
With Luminous Shaft Type

TOP-UP

LED Specifications

Single color LED	Two colors LED
	
Blue	Blue / Orange
Red	Green / Red
Dark orange	Blue / Red
Green	Blue / Green
Lawngreen	Green / Orange

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

Soldering condition

▲Manual Soldering
• Bit temperature of soldering : 350°C or less.
• Application time of soldering : within 3s.

▲Dip soldering
Preheating :
• Surface temperature of board : 100°C or less.
• Preheating time : within 2 min.
Soldering :
• Solder temperature : 260±5°C
• Immersion time : 5±1 sec.

*Apply the above soldering process for 1 or 2 times.

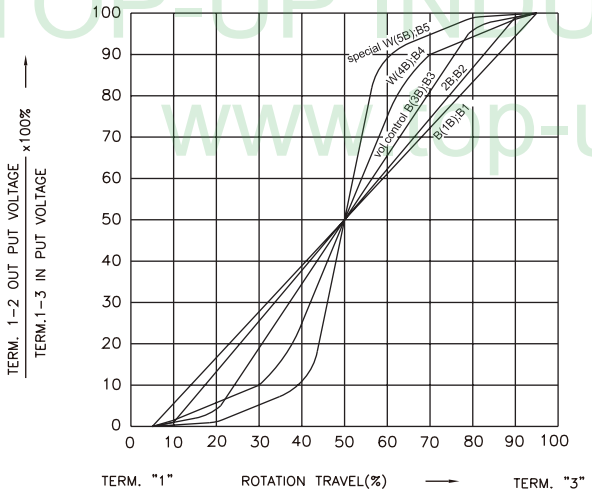
TOP-UP INDUSTRY CORP.
www.top-up.com.tw
TOP-UP INDUSTRY CORP.
www.top-up.com.tw

9mm Size Series Potentiometer
With Luminous Shaft Type

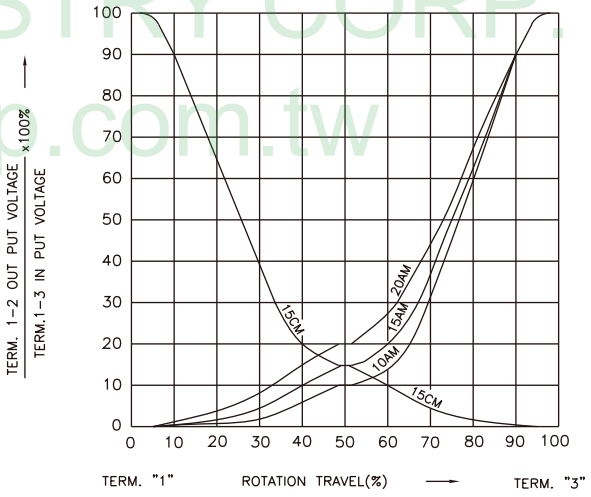
TOP-UP

Taper

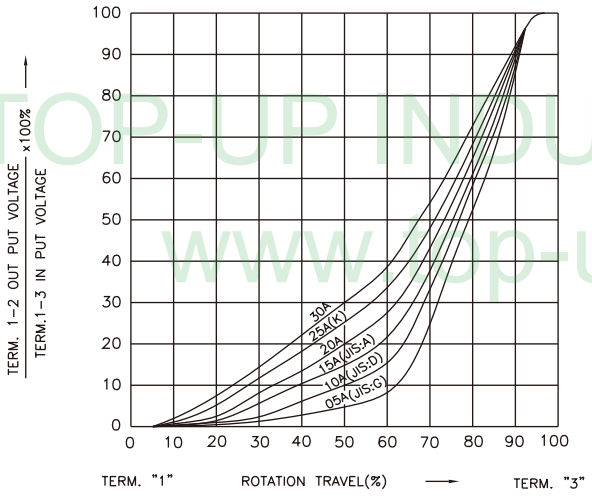
TAPERS B SERIES



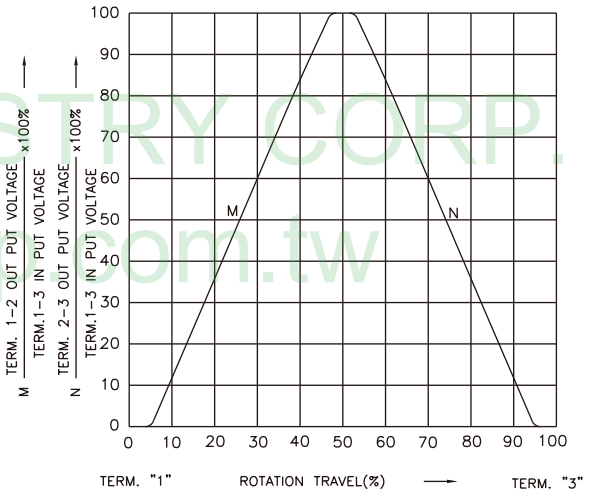
TAPERS A & C WITH 50% TAP



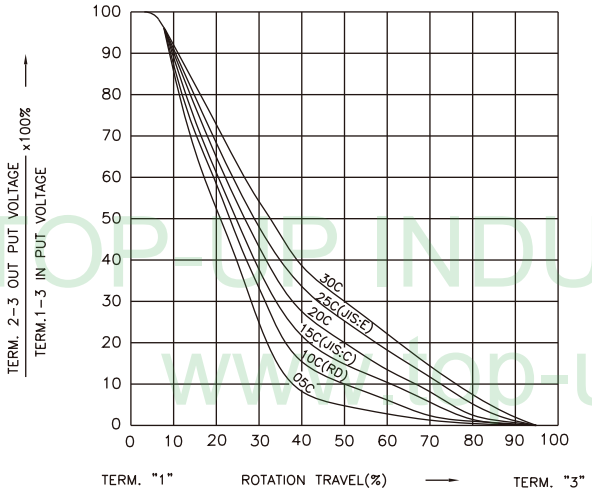
TAPERS A SERIES



TAPER M & N



TAPERS C SERIES



TOP-UP INDUSTRY CORP.
www.top-up.com.tw

9mm Size Series Potentiometer
With Luminous Shaft Type

TOP-UP

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

TOP-UP INDUSTRY CORP.

www.top-up.com.tw
www.electronicpartstaiwan.com

8F, NO.189, YUNG AN RD.,
TAOYUAN DIST.,TAOYUAN CITY 330,
TAIWAN, (R.O.C.)

TEL：+886-3-3380787
FAX：+886-3-3380767

sales@top-up.com.tw

TOP-UP INDUSTRY CORP.
www.top-up.com.tw

TOP-UP INDUSTRY CORP.
www.top-up.com.tw