

## Normal Series Metal Shaft Slide Potentiometer

**GSL-60V**



## Part Number

**GSL-60V - B 50K, L- 10 A / PCB**

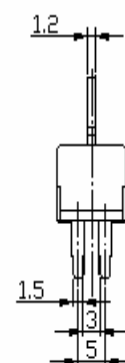
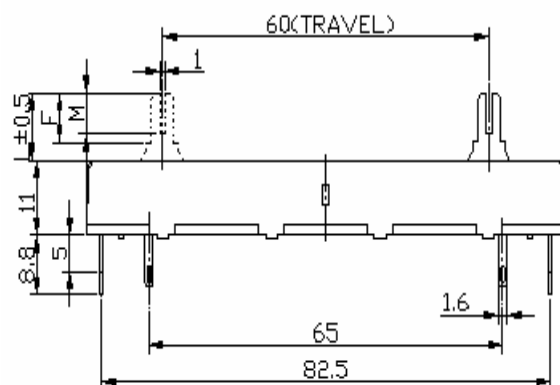
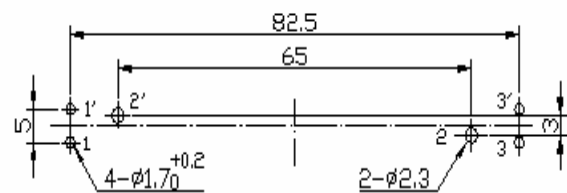
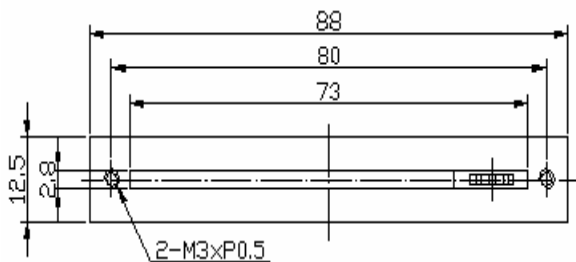
↓      ↓      ↓      ↓

Taper   Resistance Value   Shaft Type

↓      ↓

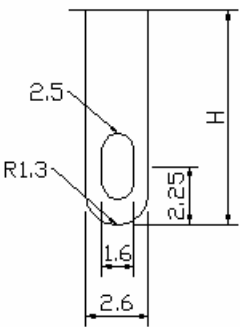
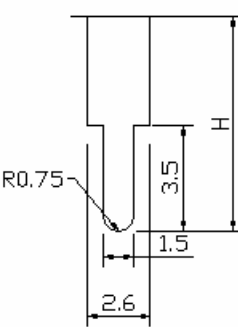
Shaft Length   Terminal Type

## Dimensions

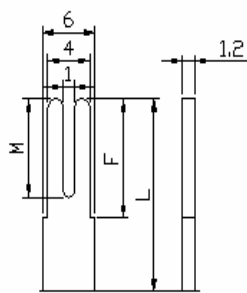
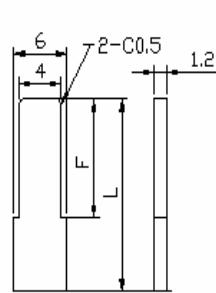
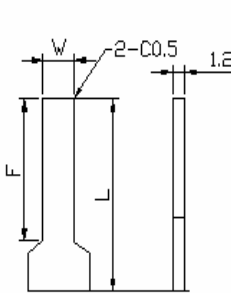
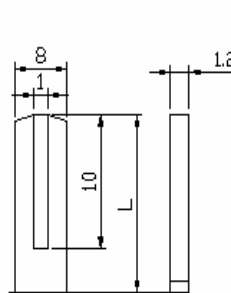


## Normal Series Metal Shaft Slide Potentiometer

### Terminal Style

| TYPE                     | Solder Type                                                                       | P.C.B Type                                                                         |               |
|--------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|
| Dimensions               |  |  |               |
| SL45V<br>SL60V<br>SL100V | Length(H)=7.5                                                                     | Length(H)=7.5                                                                      | Length(H)=8.5 |

### A. Shaft Illustration (All in Metal Type)

| MATERIAL   | SL45V    SL60V    SL100V                                                            |    |    |    |    |    |                                                                                     |    |    |    |    |    |                                                                                      |   |     |    |                                                                                       |  |  |   |    |    |  |  |  |  |
|------------|-------------------------------------------------------------------------------------|----|----|----|----|----|-------------------------------------------------------------------------------------|----|----|----|----|----|--------------------------------------------------------------------------------------|---|-----|----|---------------------------------------------------------------------------------------|--|--|---|----|----|--|--|--|--|
| LEVER TYPE | A-TYPE                                                                              |    |    |    |    |    | C-TYPE                                                                              |    |    |    |    |    | AC-TYPE                                                                              |   |     |    | BH-TYPE                                                                               |  |  |   |    |    |  |  |  |  |
| DIMENSIONS |  |    |    |    |    |    |  |    |    |    |    |    |  |   |     |    |  |  |  |   |    |    |  |  |  |  |
|            | L                                                                                   |    |    |    |    |    | L                                                                                   |    |    |    |    |    | L                                                                                    |   |     |    | L                                                                                     |  |  |   |    |    |  |  |  |  |
|            | F                                                                                   |    |    |    |    |    | F                                                                                   |    |    |    |    |    | F                                                                                    |   |     |    | F                                                                                     |  |  |   |    |    |  |  |  |  |
|            | M                                                                                   |    |    |    |    |    | F                                                                                   |    |    |    |    |    | W                                                                                    |   |     |    | L                                                                                     |  |  |   |    |    |  |  |  |  |
| LENGTH(L)  | L                                                                                   | 10 | 15 | 20 | 25 | 21 | L                                                                                   | 10 | 15 | 20 | 25 | 27 | 8.5                                                                                  | L | 8.5 | 10 |                                                                                       |  |  | L | 15 | 20 |  |  |  |  |
|            | F                                                                                   | 7  | 10 | 10 | 10 | 10 | F                                                                                   | 7  | 10 | 10 | 10 | 10 | 5                                                                                    | F | 7   | 10 |                                                                                       |  |  |   |    |    |  |  |  |  |
|            | M                                                                                   | 6  | 7  | 7  | 7  | 7  |                                                                                     |    |    |    |    |    |                                                                                      | W | 4   | 5  |                                                                                       |  |  |   |    |    |  |  |  |  |

### B. Dust-Proof is Available

## Normal Series Metal Shaft Slide Potentiometer

### Electrical Characteristics

|                                  |                                                                                                                                                              |        |        |       |        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|--------|
| Total Resistance                 | 5K $\Omega$ ~1M $\Omega$                                                                                                                                     |        |        |       |        |
| Total Resistance Tolerance       | $\pm 20\%$                                                                                                                                                   |        |        |       |        |
| Resistance Taper                 | A. B. C. D. W. Taper                                                                                                                                         |        |        |       |        |
| Resistance Taper Characteristics | A50%                                                                                                                                                         | B50%   | C50%   | D50%  | W50%   |
|                                  | 15-25%                                                                                                                                                       | 40-60% | 75-85% | 2-15% | 45-55% |
| Rated Power                      | B Taper: AC500V 0.5 W; Other Tapers: AC350V 0.25 W                                                                                                           |        |        |       |        |
| Residual Resistance              | $R \geq 250K\Omega$ 0.1%<br>$250K\Omega > R > 10K\Omega$ 20 $\Omega$ max. ( between Term. 1, 2)<br>$10K\Omega \geq R$ 20 $\Omega$ max. ( between Term. 2, 3) |        |        |       |        |
| Gang Error                       | -40 ~ 0db $\leq 3$ db                                                                                                                                        |        |        |       |        |
| Noise                            | 100mV Max.                                                                                                                                                   |        |        |       |        |
| Insulation Resistance            | DC 500V 100M $\Omega$                                                                                                                                        |        |        |       |        |
| Withstand Voltage                | 1 minute at AC 500V                                                                                                                                          |        |        |       |        |
| Sliding Life                     | 15,000 Cycles                                                                                                                                                |        |        |       |        |

### Mechanical Characteristics

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| Overall Travel           | 60mm $\pm$ 0.5 mm                                                 |
| Stopper Strength         | 5 kgf.cm max. / 3 sec.<br>(From the base level to a point of 2mm) |
| Operating Force          | 50 ~ 300 gf.cm                                                    |
| Click slip-out force     | 50 ~ 350 gf.cm                                                    |
| Lever Push-Pull Strength | 5 kgf.cm max. at 10 sec.                                          |
| Lever Wobble             | 2( 2*L)/25 mm max. (L: lever length both side)                    |
| Bending Moment           | 25mN.m (250gf.cm)                                                 |
| Soldering Heat           | 300°C, 3s. (Only for Hand-Soldering)                              |
| Lever Deviation          | 0.5 max. ( one side)                                              |