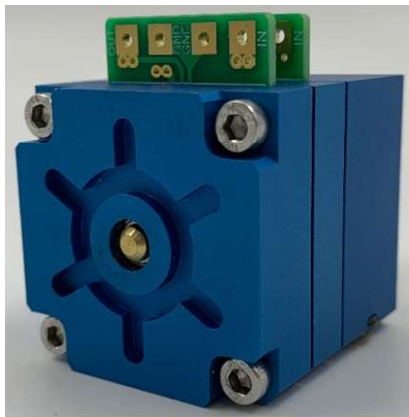


design by Mr. K

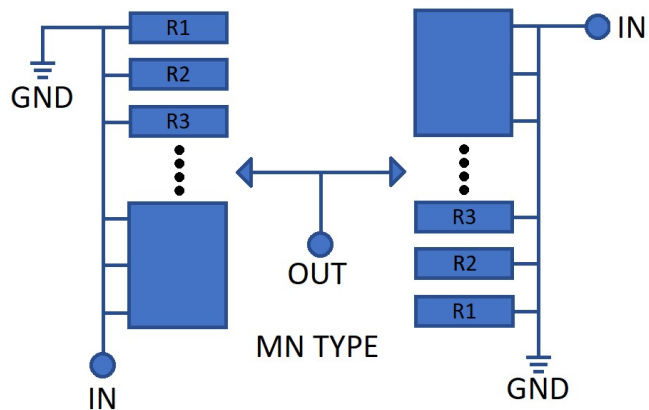
29 Steps MN Type Stepped Attenuator High Quality Passive Preamplifiers Carbon (5%) Film Resistor



MN Type Stepped Attenuators

This attenuator is formed base on MN taper, with center detent. They function as blend-balance left and right channel.

The rotation of this attenuator controls the output voltage of left and right channel. Full output for left and right channel at 50% rotation.



Detent: 29 steps

Attenuation range: -60dB ... 0dB

Contact material: Hard gold

Mechanical life: > 10 000 cycles

CNC machined AL6063 aluminum

Double grounding design

Indexing angle: 6 degree

Resistance taper: 15A

Bearing: NMB

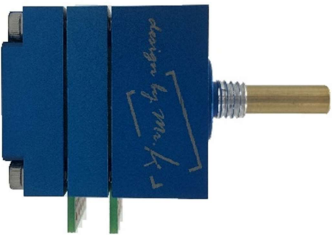
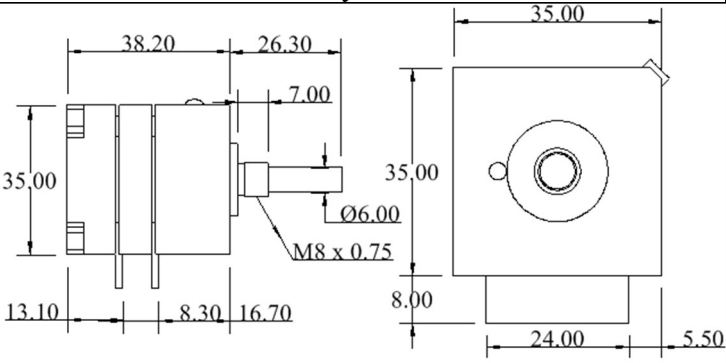
Ingress Protection Rating: IP54

| Product Image | Part NO. | Type | Channel | Resistor Value | Resistor Type (Tolerance) | Resistance Taper | Size (L x W x H) |
|---------------|-----------------|---------|---------|----------------|---------------------------|------------------|---|
| | BLS100K CMNT | Balance | Stereo | 100K | Carbon (5%) | M N | 35mm x 35mm x 38.2mm + (Shaft length 26.3mm) |
| | BLS100K MMNT | | | 100K | Metal (1%) | | |

MN Type Stepped Attenuators/ Product Dimensions

Dimensions:

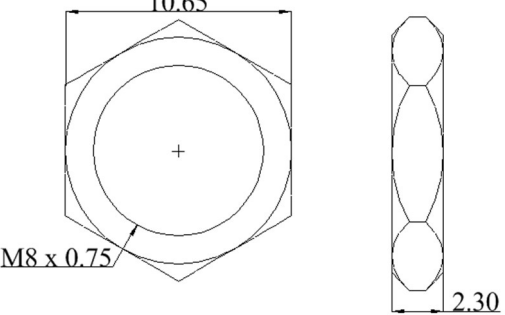
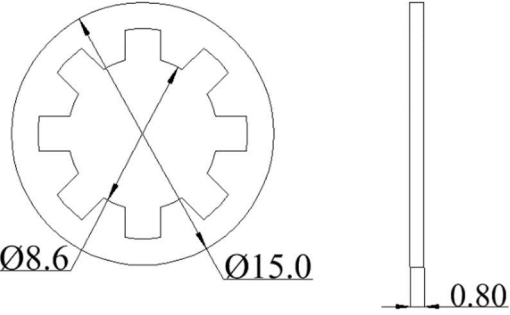
Unit: mm

| Photo | Style |
|---|--|
|  |  |

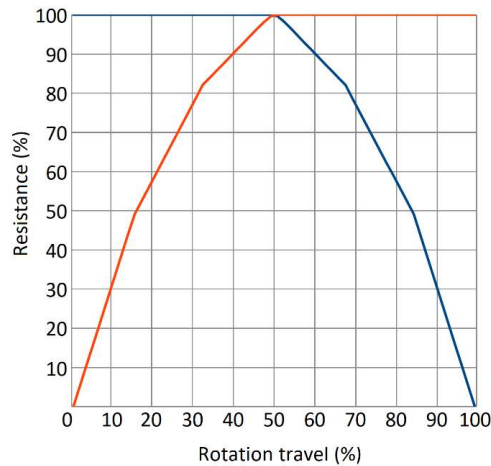
MN Type Stepped Attenuators/ Attached Parts

The following parts are included with the product.

Unit: mm

| Nut | Washer |
|---|--|
|  |  |

MN Type Stepped Attenuators/ 15A Resistance Taper



MN Type Stepped Attenuators/ Detent against dB

Part Number: BLS100KCMNT

Serial Number: _____

Tested by: _____

| Detent | Pass Value (%) | Measured value (%) * | | Detent | Pass Value (%) | Measured value (%) * | | Detent | Pass Value | Measured value (%) * | |
|--------|----------------|----------------------|-----|--------|----------------|----------------------|-----|--------|------------|----------------------|-----|
| | | A | B | | | A | B | | | A | B |
| 1 | 0 | 0 | 100 | 21 | 82.6-85.3 | 8 . | 100 | 41 | 77.3-80.6 | 100 | . . |
| 2 | 5.0-6.1 | . . | 100 | 22 | 84.5-87.0 | 8 . | 100 | 42 | 73.9-77.5 | 100 | 7 . |
| 3 | 10.1-12.1 | 1 . | 100 | 23 | 86.4-88.6 | 8 . | 100 | 43 | 70.4-74.4 | 100 | 7 . |
| 4 | 15.2-18.0 | 1 . | 100 | 24 | 88.4-90.3 | . . | 100 | 44 | 67.1-71.3 | 100 | . . |
| 5 | 20.4-23.9 | 2 . | 100 | 25 | 90.3-91.9 | 9 . | 100 | 45 | 63.7-68.2 | 100 | 6 . |
| 6 | 25.7-29.7 | 2 . | 100 | 26 | 92.2-93.5 | 9 . | 100 | 46 | 60.4-65.0 | 100 | 6 . |
| 7 | 31.0-35.4 | 3 . | 100 | 27 | 94.1-95.2 | 9 . | 100 | 47 | 57.0-61.9 | 100 | . . |
| 8 | 36.3-41.1 | . . | 100 | 28 | 96.1-96.8 | 96. | 100 | 48 | 53.7-58.7 | 100 | 5 . |
| 9 | 41.7-46.7 | 4 . | 100 | 29 | 98.0-98.4 | 98. | 100 | 49 | 50.5-55.4 | 100 | 5 . |
| 10 | 47.2-52.2 | . . | 100 | 30 | 100 | 100 | 100 | 50 | 47.2-52.2 | 100 | . . |
| 11 | 50.5-55.4 | 5 . | 100 | 31 | 98.0-98.4 | 100 | 98. | 51 | 41.7-46.7 | 100 | 4 . |
| 12 | 53.7-58.7 | 5 . | 100 | 32 | 96.1-96.8 | 100 | 96. | 52 | 36.3-41.1 | 100 | . . |
| 13 | 57.0-61.9 | . . | 100 | 33 | 94.1-95.2 | 100 | 9 . | 53 | 31.0-35.4 | 100 | 3 . |
| 14 | 60.4-65.0 | 6 . | 100 | 34 | 92.2-93.5 | 100 | 9 . | 54 | 25.7-29.7 | 100 | 2 . |
| 15 | 63.7-68.2 | 6 . | 100 | 35 | 90.3-91.9 | 100 | 9 . | 55 | 20.4-23.9 | 100 | 2 . |
| 16 | 67.1-71.3 | . . | 100 | 36 | 88.4-90.3 | 100 | . . | 56 | 15.2-18.0 | 100 | 1 . |
| 17 | 70.4-74.4 | 7 . | 100 | 37 | 86.4-88.6 | 100 | 8 . | 57 | 10.1-12.1 | 100 | 1 . |
| 18 | 73.9-77.5 | 7 . | 100 | 38 | 84.5-87.0 | 100 | 8 . | 58 | 5.0-6.1 | 100 | . . |
| 19 | 77.3-80.6 | . . | 100 | 39 | 82.6-85.3 | 100 | 8 . | 59 | 0 | 100 | 0 |
| 20 | 80.7-83.7 | 8 . | 100 | 40 | 80.7-83.7 | 100 | 8 . | | | | |

* this value means the tolerances of volume measure in A channel and B channel by 10V loading in percentage.

Important Warning:

- Do not apply torque more than 3kgf-cm on the product's hex nut, excessive force will damage the product.
- Do not unscrew the product. This action is irreversible to the inner mechanic structure.
- Noise may be heard after long term usage. Apply oil-based cleaner to the outer gap will solve the problem. Do not disassemble the product.