

# HR23S Series

Au-plated contacts

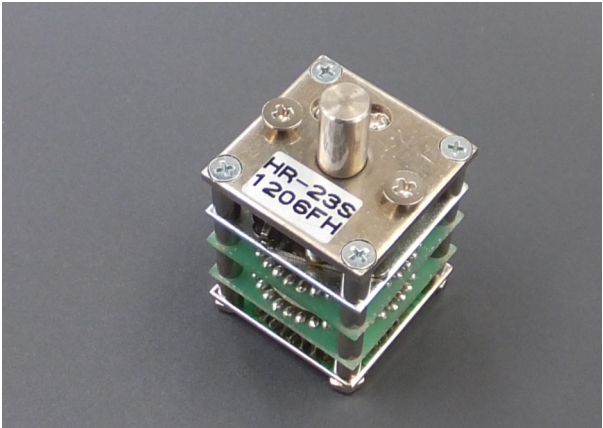
Low contact resistance

Small size

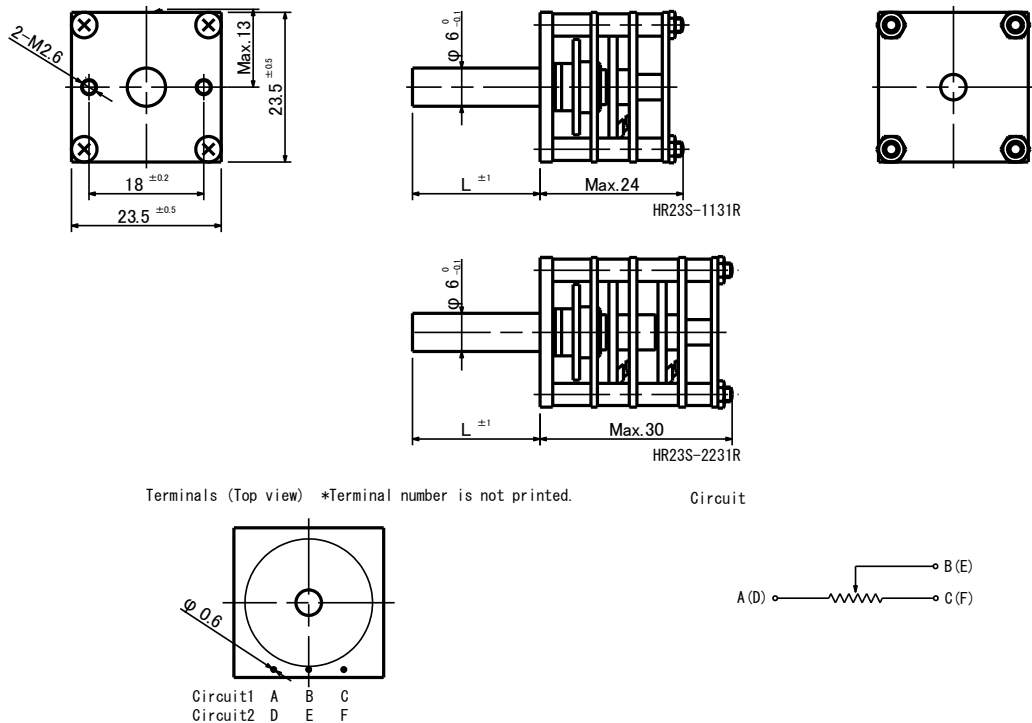
23.5mm square

Multiple contact

31positions (0dB - Cut off)



## Dimensions



The products and their specifications are subject to change without notice.  
TOKYO KO-ON DENPA CO., LTD. [www.tkd-corp.com](http://www.tkd-corp.com) ED01D-201207

# ATTENUATOR

## Model number

**HR23S** - **1131** **R** - **L1** - **10K**  
Product type      Number of circuit      Control shaft length      Impedance  
1131: 1  
2231: 2  
L1: 10.5mm  
L2: 20mm

## Electrical specifications

	HR23S-1131R	HR23S-2231R
Circuit method	Potentiometer	
Attenuation	0, 1, 2, 3, ... (1dB step) ... 11, ... (1.5dB step) ... 20, ... (2dB step) ... 30, 32.5, 35, 37.5, 40, 43, 46, 50, Cut off	
Attenuation accuracy	±0.3dB	
Max attenuation	50dB ±0.5dB	
Cut off	80dB Min.	
Matching accuracy	0.2dB or less (0dB - 50dB)	
Number of circuit	1	2
Impedance	10kohm, 100kohm ±3%	
Insertion loss	0.3dB or less	
Input level	Max. 0.1W	
Frequency range	DC ~ 20kHz	
Voltage proof	1 Min. at AC100V	
Insulation resistance	100Mohm or more at DC500V	
Rotational life	30,000 Cycles Min. (18cycles/min, Attenuation accuracy: ±0.5dB or less)	

## Mechanical specifications

	HR23S Series
Operating angle	300degrees ±2degrees
Step angle	10degrees ±1degrees
Strength of nut-attached	50Ncm
Attached parts	M2.6 x 4mm
Stopper strength	50N
Push-pull strength	50N

## Other specifications

	HR23S Series
Temp. range	-10 to +70 degrees C (Operating), -15 to +75 degrees C (Storage)
Relative humidity	90%RH (No condensation)

## Note

- \* Solder heat resistance: 350degrees C max, 5sec max, 2 times. (Manual soldering only)
- \* Please take care during soldering that the smoke from the solder does not flow inside a switch.
- \* Special order is not acceptable.