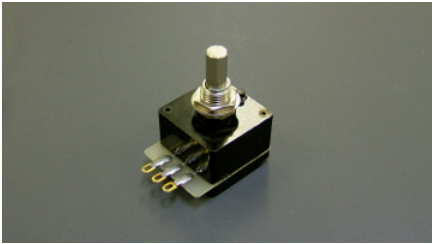


STEP VARIABLE ATTENUATOR



TYPE P2510 / P2520 Series

Au-plated contact materials (Low contact resistance).
22 or 21positions (0dB - Cut off or Max.attenuation).
Used a highly precise resistor.
25mm square (Body)

Last update: 2024.02.29. [Specifications] [Note] [Dimensions] [Model-number] [Update list] EU-RoHS

Information

Electrical specifications (initial value)	TYPE P2510/P2520 Series							
Products	*P2511*~*	*P2512*~*	*P25*3*~*	*P25*4*~*	*P25*5*~*	*P25*6*~*	*P25*7*~*	*P25*8*~*
Attenuation [Load: High]	BTS-50dB		2dB x20		1dB x20		0.5dB x20	
Circuit method	Potentiometer circuit							
Total resistance (1-C)	1kohm, 7kohm, 10kohm, 100kohm							
Total resistance tolerance	±3%							
Attenuation accuracy [Load: High]	±0.3dB							
Max attenuation [Load: High]	50dB ±0.6dB		40dB ±0.5dB		20dB ±0.5dB		10dB ±0.5dB	
Cut off [15kHz]	80dB Min.	-	80dB Min.	-	80dB Min.	-	80dB Min.	-
Matching accuracy [Load: High]	0.5dB or less							
Insertion loss	0.3dB or less							
Frequency range (DC to Max)	DC to 20kHz							
Voltage proof	1 Min. at AC500V							
Insulation resistance	100Mohm or more at DC500V							
Input level	Max. 0.1W							
Rotational life	30,000 Cycles Min. (18cycles/min, Insertion loss: 1dB or less)							

* BTS-50dB 0, 2, 4, ...(2dB step)... , 30, 32, 34, 37, 42, 50, Cut off

* [Load: high] The output side load should be used with high impedance (20 times or more than the total resistance value).

Mechanical specifications (initial value)	TYPE P2510/P2520 Series	
Operating angle	With cut off : 315 degrees ±2 degrees Without cut off : 300 degrees ±2 degrees	
Step angle	15 degrees	
Strength Nut-Attached	50Ncm	

Attached parts	Hexagonal nut (M9)
Stopper strength	50Ncm
Push-pull strength	50N

General specifications	TYPE P2510/P2520 Series
Temperature range	-10 to +70 degrees C (Operating), -15 to +75 degrees C (Storage)
Relative humidity	90%RH (No condensation)

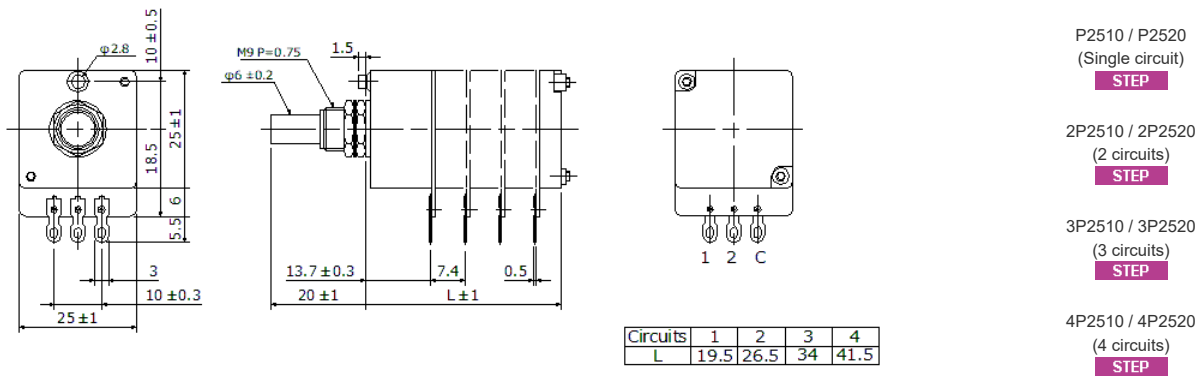
Note

- * Solder heat resistance: 350deg C max, 5sec max, 2 times. (Manual soldering only)

The solder please use the thing of the same composition. (Solder for wire lapping sticks to a terminal.)

Use solder: SN100C (Sn-0.7Cu-0.05Ni-Ge) NIHON SUPERIOR CO.,LTD.
- * Special order of the shaft length is possible. Please contact us for details.
- * It is highly recommended that the fault tolerant system is to be set up in the big situation like the live broadcast.
- * Replacing it from other brands tests it enough, and please consider.
- * This product is an attenuator of the types to change resistance.
- Therefore, a switching noise may occur.

Dimensions - *P25***-



Dimensions - Terminations



Model number

2 P25 1 1 S - 10K - 6R 22

*1

*2

*3

*4

*5

*6

*7

*8

*1	Number of circuits	Blank : Single circuit 2 to 4 : Number of circuits specified
*2	Product number	P25 : TYPE P2510/P2520 Series
*3	Direction of attenuation	1 : CCW 2 : CW ("BTS-50dB" is not selectable.)
*4	Attenuation types and Cut off	1 : BTS-50dB, With Cut off 2 : BTS-50dB, Without Cut off 3 : 2dB x20, With Cut off 4 : 2dB x20, Without Cut off 5 : 1dB x20, With Cut off 6 : 1dB x20, Without Cut off 7 : 0.5dB x20, With Cut off 8 : 0.5dB x20, Without Cut off
*5	Mechanical click option	Blank : Without click S : With click (15degrees step)
*6	Total resistance	1K : 1kohm 7K : 7kohm 10K : 10kohm 100K : 100kohm
*7	Shaft types	6R : Φ6 Round Standard
8	Shaft length (Length from mounting surface to shaft end)	20 : 20mm Standard (Only "6R20" can be omitted.) 22 : 22mm 25 : 25mm 30 : 30mm

Lineups

Products No. (X: Standard model)		Number of circuits	Max attenuation	Attenuation types	Total resistance	Total number of steps	Cut off	Direction of attenuation	Click
P2511S-1K	X	1	50dB	BTS-50dB	1kohm	21	With	CCW	With
P2512S-1K	X	1	50dB	BTS-50dB	1kohm	20	Without	CCW	With
P2511-1K	X	1	50dB	BTS-50dB	1kohm	21	With	CCW	Without
P2512-1K	X	1	50dB	BTS-50dB	1kohm	20	Without	CCW	Without
P2511S-7K		1	50dB	BTS-50dB	7kohm	21	With	CCW	With
P2512S-7K		1	50dB	BTS-50dB	7kohm	20	Without	CCW	With
P2511-7K		1	50dB	BTS-50dB	7kohm	21	With	CCW	Without
P2512-7K		1	50dB	BTS-50dB	7kohm	20	Without	CCW	Without
P2511S-10K	X	1	50dB	BTS-50dB	10kohm	21	With	CCW	With
P2512S-10K	X	1	50dB	BTS-50dB	10kohm	20	Without	CCW	With
P2511-10K	X	1	50dB	BTS-50dB	10kohm	21	With	CCW	Without
P2512-10K	X	1	50dB	BTS-50dB	10kohm	20	Without	CCW	Without
P2511S-100K	X	1	50dB	BTS-50dB	100kohm	21	With	CCW	With
P2512S-100K	X	1	50dB	BTS-50dB	100kohm	20	Without	CCW	With
P2511-100K	X	1	50dB	BTS-50dB	100kohm	21	With	CCW	Without
P2512-100K	X	1	50dB	BTS-50dB	100kohm	20	Without	CCW	Without
P2513S-1K		1	40dB	2dB x20	1kohm	21	With	CCW	With
P2514S-1K		1	40dB	2dB x20	1kohm	20	Without	CCW	With
P2523S-1K		1	40dB	2dB x20	1kohm	21	With	CW	With
P2524S-1K		1	40dB	2dB x20	1kohm	20	Without	CW	With
P2513-1K		1	40dB	2dB x20	1kohm	21	With	CCW	Without
P2514-1K		1	40dB	2dB x20	1kohm	20	Without	CCW	Without