

STEP VARIABLE ATTENUATOR



P65C Series

Au-plated contact materials (Low contact resistance).
41positions (0dB - Cut off).
Used a highly precise resistor.
2 type click torque.

Last update: 2024.11.26. [Specifications] [Note] [Dimensions] [Model-number] [Update list] EU-RoHS

Information

Specifications

Electrical specifications (initial value)	P65C Series																			
Products	*P65C*-G-*																			
Attenuation [Load: High]	CCW (Large attenuation & cut off) - CW (Small attenuation)																			
BTS-65dB	Position [degrees]	320 (CCW)	312	304	296	288	280	272	264	256	248	240	232	224	216	208	200	192	184	
	Attenuation [dB]	Cut-off	65	58	53	48.5	45	42	39.5	37.5	35.5	33.5	31.5	30	28.5	27	25.5	24	23	
	Position [degrees]	176	168	160	152	144	136	128	120	112	104	96	88	80	72	64	56	48	40	
	Attenuation [dB]	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	
																			0 (CW)	
																			0	
Circuit method	Potentiometer circuit																			
Total resistance (1-C)	1kohm, 10kohm, 50kohm, 100kohm, 250kohm																			
Total resistance tolerance	±5%																			
Attenuation accuracy [Load: High]	±0.3dB																			
Max attenuation [Load: High]	65dB ±1.0dB																			
Cut off [15kHz]	80dB Min.																			
Matching accuracy [Load: High]	0.5dB or less (0dB to 65dB)																			
Insertion loss	0.3dB or less																			
Frequency range (DC to Max)	Total resistance	1kohm				10kohm, 50kohm				100kohm				250kohm						
	Max	100kHz				50kHz				20kHz				15kHz						
Voltage proof	1 Min. at AC500V																			
Insulation resistance	100Mohm or more at DC500V																			
Input level	Max. 0.3W																			
Rotational life	30,000 Cycles Min. (18cycles/min, Insertion loss: 1dB or less)																			

* [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)	P65C Series
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Operating angle	320 degrees ±2 degrees
Step angle	8 degrees
Operating force	P65C : 0.1 - 1.5 Ncm (Non-stepper type) P65CS : 8 - 10 Ncm (Stepper type) P65CLS : 0.5 - 1.5 Ncm (Soft Stepper type)
Strength Nut-Attached	100Ncm
Attached parts	M3 screw (Length: Panel thickness + 3 to 5mm)
Stopper strength	50Ncm
Push-pull strength	50N
General specifications	P65C Series
Temperature range	-10 to +70 degrees C (Operating), -15 to +75 degrees C (Storage)
Relative humidity	90%RH (No condensation)

Note

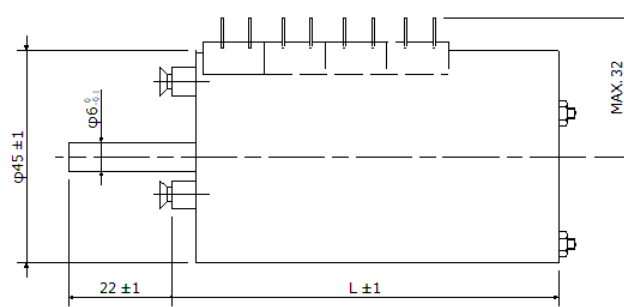
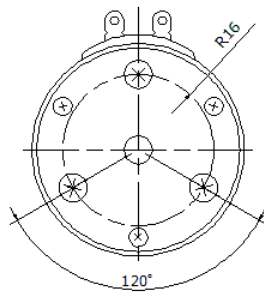
Please check before use.

- * 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

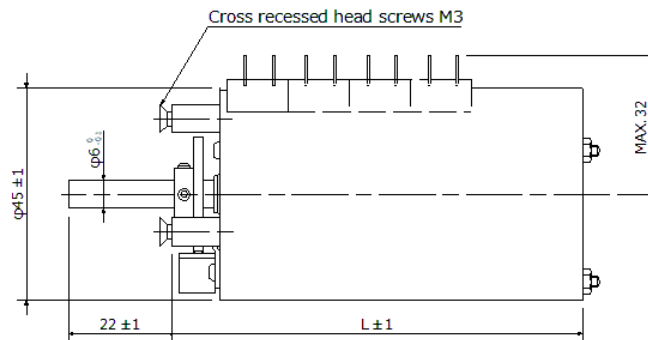
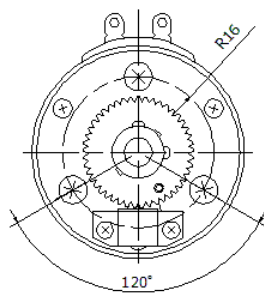
Outline

Non-Stepper Type



Model	P65C	2P65C	4P65C
L	32	44	82

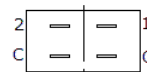
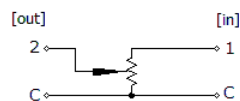
Stepper Type



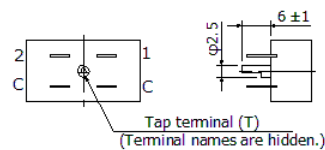
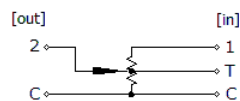
Model	P65CS P65CLS	2P65CS 2P65CLS	4P65CS 4P65CLS
L	37	49	87

Terminations

Standard type



With tap type



Available as standard specification when tap is not used.

Model number

2 P 65 C S - G T22 - 10Kohm - 6R22

*1 *2 *3 *4 *5 *6 *7 *8 *9

*1 Number of circuits

Blank : Single circuit
2 : 2 circuits specified
4 : 4 circuits specified

*2 Circuit method

P : Potentiometer (Unbalanced)

*3	Max attenuation	65 : BTS-65dB
*4	Product type	C : TYPE-C Series
*5	Stepper option	Blank : Non-stepper type (Without clicks) S : Stepper type (With clicks) LS : Soft stepper type (With clicks)
*6	Contact material	G : Au-plated
*7	With tap option	Blank : Without tap (Standard) T22 : With tap (22dB position) T31 : With tap (31.5dB position)
*8	Total resistance	1kohm : 1kohm 10kohm : 10kohm 50kohm : 50kohm 100kohm : 100kohm 250kohm : 250kohm
9	Shaft length (Length from mounting surface to shaft end)	6R20 : Φ6 Round 20mm 6R22 : Φ6 Round 22mm Standard (Only "6R22" can be omitted.) 6R25 : Φ6 Round 25mm

Model Number Search

P65C-G-1Kohm (or P65C-G-1Kohm-6R22)

(Single circuit, Shaft length 22mm, Without click, Resistance 1kohm, Without tap)

After selecting each specification, the model number for ordering appears at the top.

(If blank, there is no target model.)

Number of circuits :

☒Single circuit

☐2 circuits

☐4 circuits

Mechanical click option :

☒Without click

☐8degrees step clicks

☐8degrees step soft clicks

Tap option :

☒Without tap

☐With tap (22dB position)

☐With tap (31.5dB position)

Total resistance value :

☒1kohm

☐5kohm

☐10kohm

☐50kohm

☐100kohm

☐250kohm

Shaft length :

☐20mm

☒22mm

☐25mm

Reset

When reloading the browser, please press Reset once.

Update list	
2024.11.26.	Added tap option.
2024.07.10.	Added standard shaft length.
2024.03.18.	Introduction of model number search.
2022.11.15.	First edition