Attenuator Type-C

Low contact resistance

Au-plated or Silver alloy contact materials.

4 types attenuation circuits

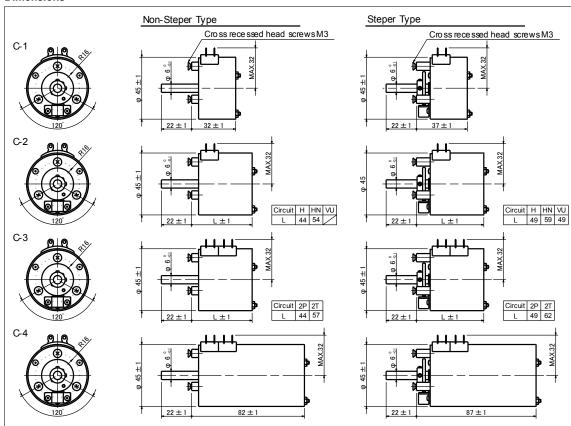
Potentiometer, B-T, B-H, B-HN

High Accuracy

Used a highly precise resistor.



Dimensions



The products and their specifications are subject to change without notice. TOKYO KO-ON DENPA CO., LTD. www.tkd-corp.com ED01E-201104

ATTENUATOR

Model number

2 T 50 C S - 6000hm

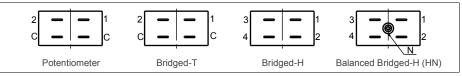
*A *B Max attenuation Product type *C Impedance

*A Number of circuit Blank: single circuit, 2: Dual circuits

*B Circuit P: Potentiometer, T: Bridged-T, H: Bridged-H, HN: Balanced Bridged-H

*C Stepper option Blank: Without clicks, S: With clicks

Terminations



Electrical specifications

Electrical specifications									
	Type-C								
Attenuation	BTS-65dB 0, 2, 4,(2dB step), 30, 32, 34, 37, 42, 50, cut off BTS-65dB 0, 1, 2, 3,(1dB step), 24, 25.5, 27, 28.5, 30, 31.5, 37.5, 39.5, 42, 45, 48.5, 53, 58, 65, cut off								
Attenuation accuracy	Attenuation step 0.5dB or less 1~2dB 3dB or more	Error in step Less than ±0.05 Less than ±0.1 Less than ±0.2	Max. Attenuation Less than ±0.1 Less than ±0.2 Less than ±0.4						
Accuracy of Impedance	±2% (Imped	Impedance)							
Cut off (15Hz)	Cut off 80dB Min. 70dB Min. 58dB Min.	Max. Attenuation 65dB 50dB 20dB	Impedance 600ohm 7kohm 7kohm						
Voltage proof	1 Min. at AC500V								
Insulation resistance Input level	100Mohm or more at DC500V Max. 0.3W								
Rotational life	30,000 Cycles Min. (18cycles/min, Insertion loss: 1dB or less)								

Mechanical specifications

	Type-C
Operating angle	(Step angle) x (Number of steps) ±2degrees
Strength of Nut-Attached	100Ncm
Attached Parts	M3 screw (Length: Panel thickness + 3~5mm)
Stopper strength	50Ncm
Push-pull strength	50N

General specifications

	Type-C					
Temp.range	-10 to +60 degrees C (Operating), -15 to +65 degrees C (Storage)					
Relative humidity	80%RH (No condensation)					

Note

- * Solder heat resistance: 350degrees C max, 5sec max, to twice. (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.



- * Cannot use this product for the signal line using phontom-48V.
- * This product is an attenuator of the types to change resistance. Therefore, a switching noise may occur.

STANDARD LINEUPS

Order	Model number	Circuit	Max.	Attenuation	Impedance	Frequency	1step	Total Number	Stepper	Cut off	Direction of	Dim.
Number			Attenuation	types		Range	angle	of steps	option		attenuation	
C-P001	P50CS-1kohm	Р	50dB	BTS-50dB	1kohm	DC~100kHz	15degs	21	With	With	CCW	C-1
C-P002	P50CS-50kohm	P P	50dB	BTS-50dB	50kohm	DC~50kHz	15degs	21	With	With	CCW	C-1
C-P003	P50CS-250kohm	P	50dB	BTS-50dB	250kohm	DC~15kHz	15degs	21	With	With	CCW	C-1
C-P004 C-P005	P50CS-10kohm	P	50dB 50dB	BTS-50dB BTS-50dB	10kohm	DC~50kHz DC~50kHz	15degs	21	With -	With With	CCW	C-1
C-P005	P50C-10kohm	P			10kohm		15degs	21 40			CCW	C-1
	P65CS-100kohm	P	65dB	BTS-65dB	100kohm	DC~20kHz	8degs		With	With		_
C-P007	P65CS-250kohm	Р	65dB	BTS-65dB	250kohm	DC~15kHz	8degs	40	With	With	CCW	C-1
												<u> </u>
C-T001	T10CS-600ohm	Т	10dB	1dB x 10	600ohm	DC~500kHz	15degs	10	With	-	CCW	C-1
C-T002	T10CS-600ohm	Т	10dB	1dB x 10	600ohm	DC~500kHz	30degs	10	With	-	CCW	C-1
C-T003	T20CS-600ohm	Т	20dB	1dB x 20	600ohm	DC~200kHz	15degs	21	With	With	CCW	C-1
C-T004	T20C-600ohm	Т	20dB	1dB x 20	600ohm	DC~200kHz	15degs	21	-	With	CCW	C-1
C-T005	T20CS-600ohm	Т	20dB	1dB x 20	600ohm	DC~200kHz	15degs	20	With	-	CW	C-1
C-T006	T20C-600ohm	Т	20dB	1dB x 20	600ohm	DC~200kHz	15degs	20	-	-	CW	C-1
C-T007	T21CS-600ohm	Т	21dB	1dB x 21	600ohm	DC~200kHz	15degs	21	With	-	CCW	C-1
C-T008	T21C-600ohm	Т	21dB	1dB x 21	600ohm	DC~200kHz	15degs	21	-	-	CCW	C-1
C-T009	-	-	-	-	-	-	-	-	-	-	-	-
C-T010	T40CS-600ohm	Т	40dB	2dB x 20	600ohm	DC~20kHz	15degs	21	With	With	CCW	C-1
C-T011	T40C-600ohm	Т	40dB	2dB x 20	600ohm	DC~20kHz	15degs	21	-	With	CCW	C-1
C-T012	T42CS-600ohm	Т	42dB	2dB x 21	600ohm	DC~150kHz	15degs	21	With	-	CCW	C-1
C-T013	T42C-600ohm	Т	42dB	2dB x 21	600ohm	DC~150kHz	15degs	21	-	-	CCW	C-1
C-T014	T50CS-3kohm	Т	50dB	BTS-50dB	3kohm	DC~15kHz	15degs	21	With	With	CCW	C-1
C-T015	T50C-3kohm	Т	50dB	BTS-50dB	3kohm	DC~15kHz	15degs	21	-	With	CCW	C-1
C-T016	T50CS-600ohm	Т	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	With	With	CCW	C-1
C-T017	T50C-600ohm	Т	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	-	With	CCW	C-1
C-T018	T50CS-600ohm	Т	50dB	5dB x 10	600ohm	DC~100kHz	30degs	10	With	-	CCW	C-1
C-T019	T50CS-600ohm	Т	50dB	10dB x 5	600ohm	DC~100kHz	30degs	5	With	-	CCW	C-1
C-T020	T65CS-600ohm	Т	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	With	With	CCW	C-1
C-T021	T65C-600ohm	Т	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	-	With	CCW	C-1
C-T022	2T50CS-600ohm	T x 2	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	With	With	CCW	C-3
C-T023	2T50C-600ohm	T x 2	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	-	With	CCW	C-3
C-T024	2T65CS-600ohm	T x 2	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	With	With	CCW	C-3
C-T025	2T65C-600ohm	T x 2	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	-	With	CCW	C-3
C-T026	-	-	-	-	-	-	-	-	-	-	-	-
C-T027	-	-	-	-	-	-	-	-	-	-	-	-
C-H001	H50CS-600ohm	Н	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	With	With	CCW	C-2
C-H002	H50C-600ohm	Н	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	-	With	CCW	C-2
	i	l								l		t
C-HN001	HN50CS-600ohm	HN	50dB	BTS-50dB	600ohm	DC~20kHz	15deas	21	With	With	CCW	C-2
C-HN002	HN50C-600ohm	HN	50dB	BTS-50dB	600ohm	DC~20kHz	15degs	21	V V I (I I	With	CCW	C-2
C-HN003	HN65CS-600ohm	HN	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	With	With	CCW	C-2
C-HN003	HN65C-600ohm	HN	65dB	BTS-65dB	600ohm	DC~20kHz	8degs	40	V V I (I I	With	CCW	C-2
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Specification Information

Order Number Standard products with a simple number. Circuit

POTENTIOMETER

Unbalanced circuit

BRIDGED-T Insertion loss: 0dB

Constant impedance Unbalanced circuit

BRIDGED-H Insertion loss: 0dB Constant impedance Balanced circuit

BRIDGED-HN Insertion loss: 0dB Constant impedance Balanced circuit With Ground point Max. Attenuation Maximum attenuation without Cut off point.

Attenuation types BTS-50dB, BTS-65dB: Look at specifications.

Ex) "1dBx10": 0, 1, ...(1dB step)..., 9, 10dB Impedance Total resistance (Potentiometer), Input / Output Impedance (other circuits)

Frequency Range Operating frequency range.

1step angle The angle to the next decrement point.

Total rotational angle = (Number of steps) x (1step angle)

Total Number of steps

Total number of the Circuit and Attenuation types.

Total number of contacts = Total number of steps + 1

Stepper option With: With Clicks
Cut off Cut off attenuation.

Please see the cut-off attenuation specification.

Direction of attenuation CCW: Attenuation decreases with the clockwise (Up to Signal level).

CW: Attenuation increases with the clockwise (Down to Signal level).

Dimension Please see the Dimension and Dimension number.

Method of ordering

- 1. Can estimate the standard lineup product only with the order number.
- 2. In the case of the specifications product which a standard lineup does not have, there are two ways of estimate methods.
- a: Method to change a part of the standard lineup specifications
 - a-1: Please inform it of the order number and specifications change point.

 Modifiable point: Cut off (With / Without), Stepper option (With / Without), Impedance, Control shaft length
 - a-2: Examine production possibility with designated specifications before an estimate.
 - a-3: Inform it of the model number and an estimate.
- b: Special order specifications
 - b-1: Please inform it of specifications of the hope.

(Cannot change the basic electric specifications such as input levels.)

Modifiable point: Cut off (With / Without), Stepper option (With / Without), Impedance, Control shaft length, Circuit, Max.Attenuation, Attenuation type

- b-2: Examine production possibility with designated specifications before an estimate.
- b-3: Inform it of the model number and an estimate.