

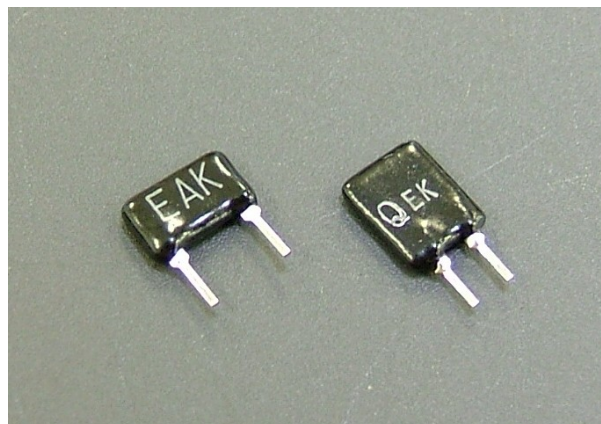
Correctohm-STP Series

RESISTOR

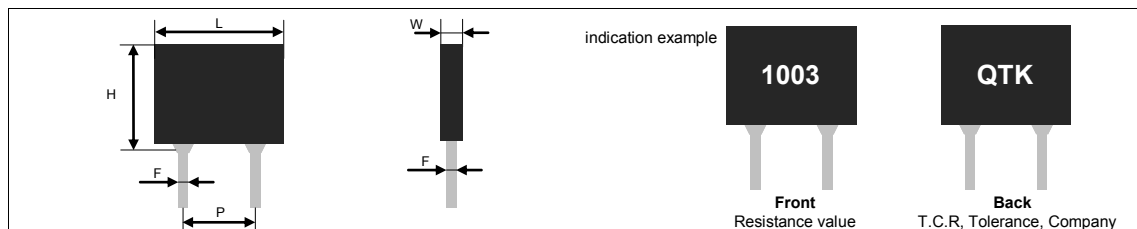
Thin Film Network Resistor

High precision & Low T.C.R

Molding insulation



Dimensions



Dimensions [mm]

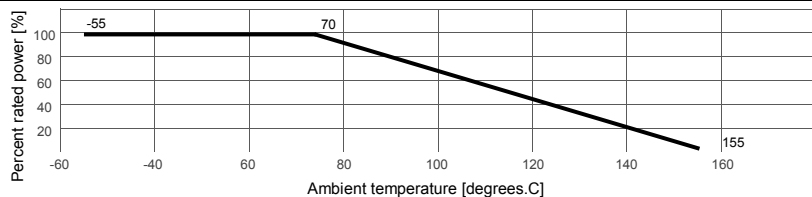
Product type	L	H	I	P	W	D	F
STP2	5.0max	6.5max	3.0±0.5	2.54±0.2	2.5max	0.25 +0.15/-0.05	
STP2L	5.0max	9.0max		2.54±0.2			
STP3	7.62max	6.5max		5.08±0.2			

Materials

Insulation molding	epoxy resin
Resistive film	Ni-Cr type
Lead frame	phosphor treatment (tin plating)
Core	ceramic

Rating

Product type	Rated power [W]	Highest usable voltage [V]	Extreme highest overload voltage [V]	Applicable temperature range [degs C]
	70degs. C			
STP2	0.125	112	250	-55~155 [degs. C]
STP2L	0.25	158	395	
STP3	0.25	250	500	



Resistance tolerance [%]

Symbol	T	E	A	B
Tolerance	±0.01	±0.025	±0.05	±0.1

Temperature coefficient of resistance [ppm/degs.C]

Symbol	P	Q	R	S
T.C.R	±1.0	±2.5	±5	±10

* The guarantee temperature range of T.C.R is 0~70 degs.C

The products and their specifications are subject to change without notice.
TOKYO KO-ON DENPA CO., LTD. www.tkd-corp.com ED01D-201104

Model number

STP 2 Q 1003 T

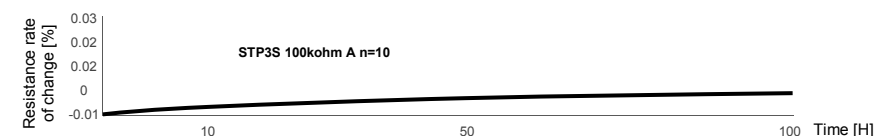
Product type Size T.C.R Resistance value Resistance tolerance

Production resistance value range

Circuit type	Resistance tolerance	Production resistance value range [ohm]			
		Temperature coefficient of resistance			
		P	Q	R	S
STP2	B	-	-	-	10~49.9
	T, E, A, B	50~100K			
STP2L	B	-	-	-	10~49.9
	T, E, A, B	50~150K			
STP3	B	-	-	-	10~49.9
	T, E, A, B	50~200K			
	A, B	-	-	-	200K~1M

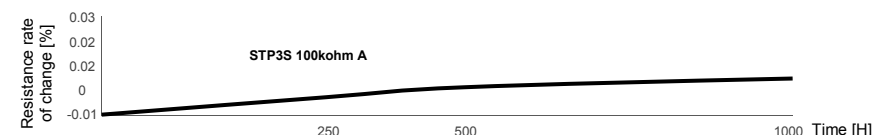
Pressure cooker bias test

121degs.C, 100%RH, Pressure of 2 atmospheres, Rated 10% load



Humidity load test

85degs.C, 85~90%RH, Rated load (1.5H at ON and 0.5H at OFF)



Performance

	Performance test contents	Performance of Correctohm-STP	JIS C 5202
Electric	Resistance value	Rate value	5.1
	T.C.R	Rate value	5.2
	Overload (short time)	±(0.01%+0.01 ohm)	5.5
	Insulation resistance	10,000Mohm Min.	5.6
	Voltage proof	±(0.01%+0.01 ohm)	5.7
Mechanic	Terminal strength	±(0.01%+0.01 ohm)	6.1
	Vibration resistance	±(0.02%+0.01 ohm)	6.3
	Solder dip resistance	±(0.02%+0.01 ohm)	6.4
	Solderability	95% Min.	6.5
Weatherability	Solvent resistance	Appearance not having a problem.	6.9
	Temperature cycling test	±(0.01%+0.01 ohm)	7.4
	Humidity resistance	±(0.02%+0.01 ohm)	7.9
	Rated load	±(0.01%+0.01 ohm)	7.10

General specifications

	STP
Storage temp. range	-10 to +50 degrees C
Relative humidity	85%RH (No condensation)

Note

* Use to the apparatus which may cause an in-vehicle apparatus (including the train), medical equipment, an aviation apparatus, an apparatus about human life including the ship apparatus and the serious damage; when is done, please talk by all means.