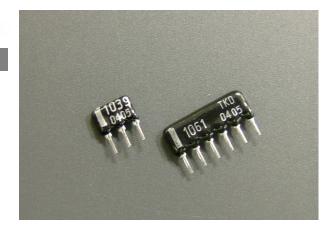
Correctohm-TNP Series

RESISTOR

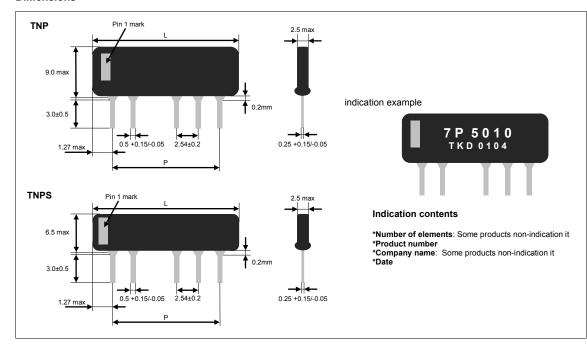
Thin Film Network Resistor

Custom supported products

Molding insulation



Dimensions



Dimensions [mm]

Dim	Туре	3P	4P	5P	6P	7P	8P	9P
L-Max	TNP	8.98	11.52	14.06	16.6	19.14	21.68	24.22
L-IVIAX	TNPS	7.62	10.16	12.7	15.24	17.78	20.32	22.86
Р	Common	5.08	7.62	10.16	12.7	15.24	17.78	20.32
Dim	Туре	10P	11P	12P	13P	14P	15P	-
L-Max	RN50	26.76	29.3	31.84	34.38	36.92	39.46	-
L-IVIAX	RN50	25.4	27.94	30.48	33.02	35.56	38.1	-
Р	Common	22.86	25.4	27.94	30.48	33.02	35.56	-

Materials

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

Model number

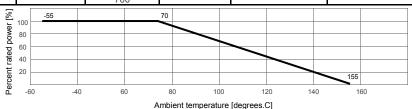
TNP 8P(S) 5016

Product type Number of elements Product Number

Acquire a number at the time of specifications decision in us.

Rating

Turno	Rated power (70degs. C)		Highest usable	Extreme highest	Applicable temperature	
Туре	mW / Element	mW / Network	voltage [V]	overload voltage [V]	range [degs C]	
3P		200				
4P		300				
5P		400				
6P		500				
7P		600]			
8P		700				
9P	100	700	100	200	-55~155 [degs.C]	
10P		700				
11P		700				
12P		700				
13P		700				
14P		700				
15P		700				



Temperature coefficient of resistance [ppm/degs.C]

Symbol	R	S	Е	С
absolute	±5	±10	±25	±50
relative	1, 2, 5	1, 2, 5, 10	1, 2, 5, 10, 25	1, 2, 5, 10, 25

- * Relative value "1ppm" is a same resistance value.
- * Relative value "2ppm" is less than resistance ratio 50 times.
- * The guarantee temperature range of T.C.R is 0~70 degs.C about R, S.

Resistance tolerance [%]

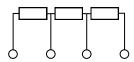
Symbol	А	В	С	D	F
absolute	±0.05	±0.1	±0.25	±0.5	±1
Relative	0.025, 0.05	0.025, 0.05, 0.1	0.025, 0.05, 0.1, 0.25	0.025, 0.05,	0.1, 0.25, 0.5

Production resistance value range

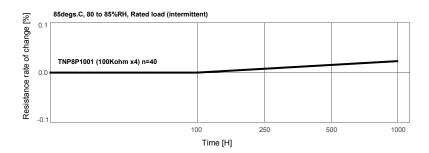
	Pro				
Circuit type	T	Resistance ratio			
	R	S	Е	С	
Α	100~100K		4	0~250K	
В	100~50K		4	10~100K	x1000
С	100~75K		4	ŀ0~150K	



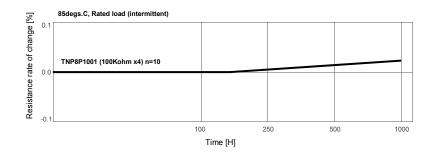




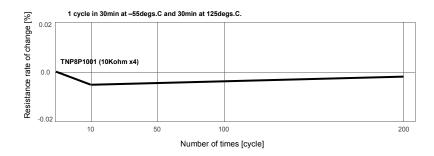
Humidity load life test



Load life test



Thermal shock test



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

Performance

Performance test contents		Performance of Correctohm-TNP	JIS C 5202
	Resistance value	Rate value	5.1
	T.C.R	Rate value	5.2
Electric	Overload (short time)	±(0.01%+0.01ohm)	5.5
	Insulation resisrance	10,000Mohm Min.	5.6
	Voltage proof	±(0.01%+0.01ohm)	5.7
	Terminal strength	±(0.01%+0.01ohm)	6.1
	Vibration resistance	±(0.02%+0.01ohm)	6.3
Mechanic	Solder dip resistance	±(0.02%+0.01ohm)	6.4
	Solderability	95% Min.	6.5
	Solvent resistance	Appearance not having a problem.	6.9
	Temperature cycling test	±(0.02%+0.01ohm)	7.4
Weatherability	Humidity resistance	±(0.02%+0.01ohm)	7.9
	Rated load (70degs.C)	±(0.02%+0.01ohm)	7.10

General specifications

	TNP
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.