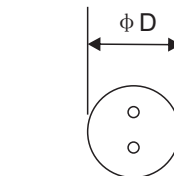
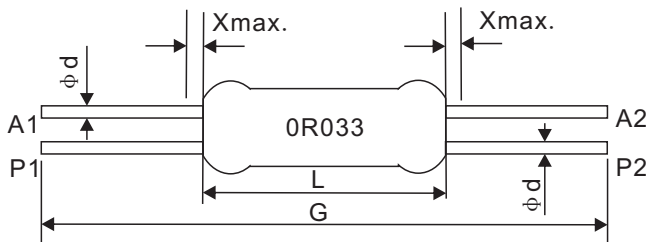


## ● Features

ACD resistor has the characteristics of low resistance, high precision, low TCR and stability, used metal belt that is precisely rolled by precision electric resistance alloy which is made of nickel chromium and manganese bronze series as resistance material, widely used in constant current, constant voltage and sample circuit.

## ● Dimensions



注: X is the lead paint layer length of root

Type	Power (W)	Dimensions(mm) [inches]				
		D	L	d	Xmax.	G
ACD01	1W	4.3[0.169]	11[0.433]	0.8±0.03 [0.031±0.001]	2	63±1[2.480±0.039]
ACD03	3W	4.8[0.189]	13[0.512]		2	63±1[2.480±0.039]
ACD04	4W	5.5[0.217]	16.5[0.650]		3	63±1[2.480±0.039]
ACD05	5W	7.5[0.295]	18[0.709]		3	63±1[2.480±0.039]
ACD07	7W	7.5[0.295]	26[1.024]		3	73±1[2.874±0.039]
ACD10	10	8.0[0.315]	44[1.732]		3	88±1[3.465±0.039]

## ● Reference Standards

IEC 60115-1

## ● Ordering Information

Example:

ACD	01	F	4R7	C1
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance	Resistance Tolerance	TCR.

(1)Type: ACR SERIES

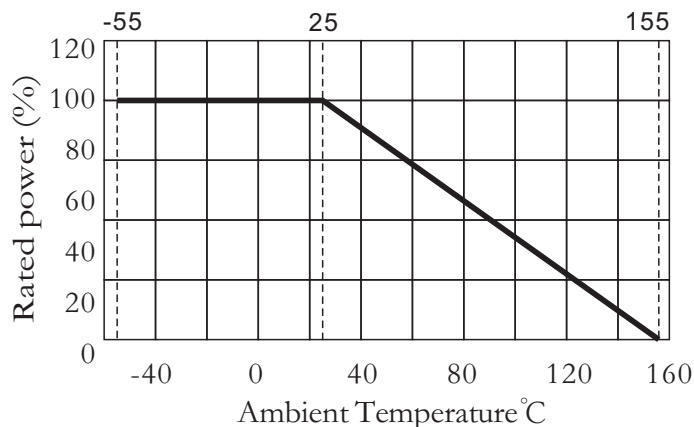
(2)Power Rating: 01=1W、03=3W、04=4W、05=5W、07=7W、10=10W

(3)Resistance Value:4R7=4.7R、R10=0.1Ω、47R0=47Ω...

(4)Tolerance: B=±0.1%、F=±1%、J=±5%

(5)TCR.:C6=±10%PPM/°C,C5=±15%PPM/°C,C4=±20%PPM/°C,C3=±25%PPM/°C,  
C2=±50%PPM/°C,C1=±100%PPM/°C

## Derating Curve



## Applications And Ratings

Type	Power Rating at 40°C	Power Rating at 70°C	Limiting Voltage U <sub>max</sub>	Resistance Tolerance	Resistance Range(1)Ω TCR = -10ppm/k to -80ppm/k	Resistance Range(2)Ω TCR = 100ppm/k to 180ppm/k	Resistance Range(3)Ω TCR = 100ppm/k
ACD01	1	0.9	$\sqrt{P \times R}$	J = ± 5%	0.10 — 33	36 — 2.4K	n/a
ACD03	3	2.5			0.10 — 390	430 — 3.3K	3.6K — 5.1K
ACD04	4	3.5			0.10 — 620	680 — 6.8K	n/a
ACD05	5	4.7			0.10 — 910	1K — 10K	n/a
ACD07	7	5.8			0.10 — 1.5K	1.6K — 15K	n/a
ACD10	10	8.4			0.22 — 560	620 — 27K	n/a

## Performance

Test Items	Performance Requirements	Test Methods(IEC 60115-1)
Resistance	Within specified tolerance	Measuring points are 10mm from the end cap
T.C.R.	Within specified	Room temperature+100°C
Short time overload	± (2%+0.1Ω)	10 times of the rated power for 5 seconds
Load life	± (5%+0.1Ω)	Rated voltage at 70°C for 1,000 hours 1.5hr ON/0.5hr OFF Cycles
Load life in humidity	± (5%+0.1Ω)	Rated voltage at 40°C ,95%RH for 1,000 hours
Moisture resistance	± (1%+0.05Ω)	40°C ,95%RH for 240 hours
Temperature cycle	± (1%+0.05Ω)	At -55°C for 30min, time at +25°C for 10-15min,time at +155°C for 30min, time at +25°C for 10-15min,total 5cycles.
Solderability	95%(min)coverage	Temp. of solder 245°C ± 5°C duration of immersion 3s ± 0.5s
Resistance to soldering heat	± (0.5%+0.05Ω)	260°C ± 5°C for 10 seconds 350°C ± 10°C for 3.5 seconds
Insulation resistance	> 1,000MΩ	500V insulation test for 1min.
Flame proof	No evidence of flaming or arcing	AC voltage of 4,8,16 times the power rating for 1min,(V ≤ 4 times max, working voltage)