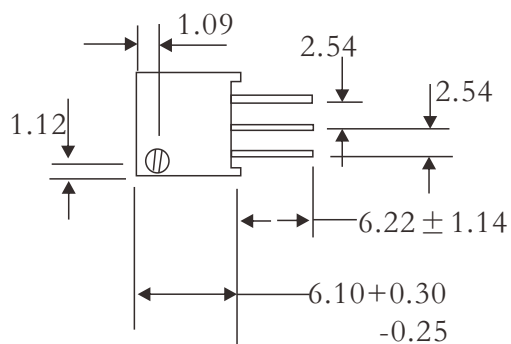
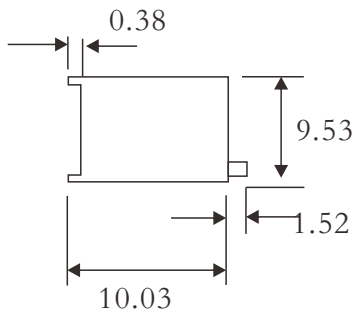


● Feature

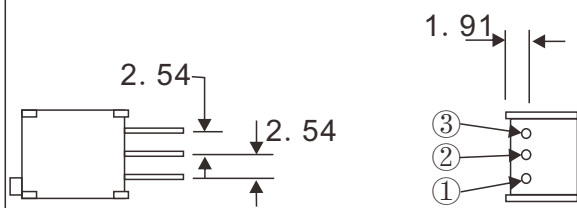
- (Standard Resistance Range): 10Ω-2MΩ
- (Resistance Tolerance): ± 5% , ± 10%
- (Terminal Resistance): ≤ 1%R or 2Ω
- (Contact Resistance Variation): ≤ 3%R or 3Ω
- (Insulation Resistance): R1 ≥ 1GΩ
- (Withstand Voltage): 101.3kPa 600V 8.5kPa 315V
- (Effective Electrical Travel): 30 ± 2(cycles)

● Dimensions

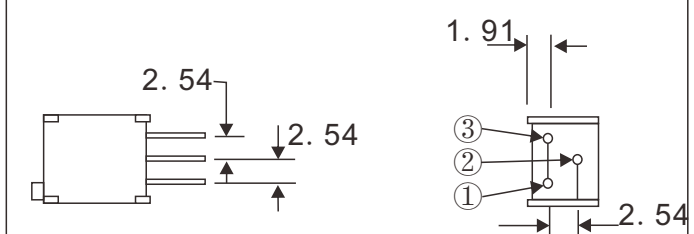
Common dimensions



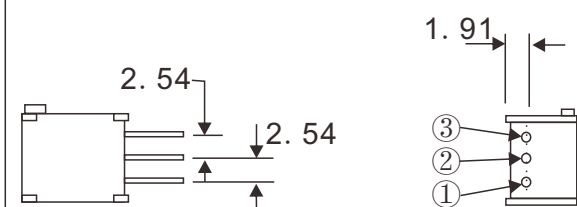
3299W (Top adjust)



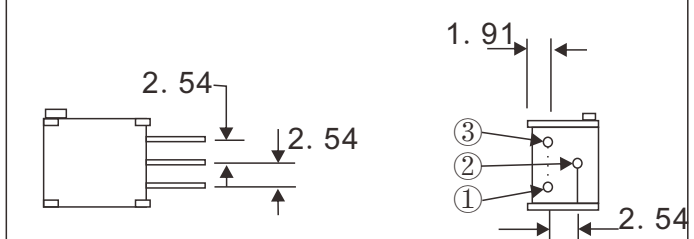
3299Y (Top adjust)



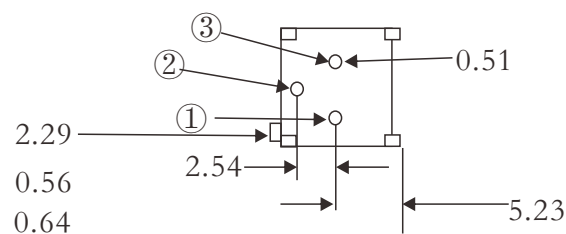
3299X (Side adjust)



3299Z (Side adjust)



3299P (Side adjust)



Reference Standards

JIS C 5201-1

Ordering Information

Example:

3299	0.5	B	C	10R0
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	TCR	Resistance

(1)Type: 3299W,3299Y,3299X,3299Z,3299P SERIES

(2)Power Rating: 0.5=0.5W

(3)Tolerance: J=±5%,K=±10%

(4)TCR: ±100ppm/°C; ±250ppm/°C;

(5)Resistance Value:10R0=10R、10K00=10KΩ

Power And Resistance etc

Type	Power(W)	Resistance Range(Ω)	Tolerance Range	TCR PPM/°C	MaxWorking Voltage(V)	Operating Temperature
3299	0.5W	10Ω~2MΩ	±5%~±10%	±100ppm/°C ±250ppm/°C	300V	-55°C ~+125°C

Performance

(Rated Power):	+70°C 0.5W;+125°C 0W
(Temperature Range) :	-55°C ~+125°C
(Temperature Coefficient):	±250、±100ppm/°C
(Temperature Variation) :	$\Delta R \leq \pm 2\%R$, $\Delta(U_{ab}/U_{ac}) \leq \pm 1\%$
(Collision):	390m/s ² , 4000 das Mal $\Delta R \leq \pm 1\%R$
(Vibration):	10~500HZ, 0.75mm or 98m/s ² ,6h $\Delta R \leq \pm 1\%R$, $\Delta(U_{ab}/U_{ac}) \leq \pm 2\%$
(Climate Category):	$\Delta R \leq \pm 3\%R$, R1 $\geq 100M\Omega$
(Electrical Endurance at 70°C):	0.5W、1000h、 $\Delta R \leq \pm 3\%R$
(Mechanical Endurance)	200(cyclesk) $\Delta R \leq \pm 3\%R$
(Steady Damp-heat):	$\Delta R \leq \pm 3\%R$, R1 $\geq 100M$
(Total Mechanical Travel)	30 ± 2(cycles)
(Staring Torque)	$\leq 36mN.m$
(Clutch Torque)	$\geq 36mN.m$