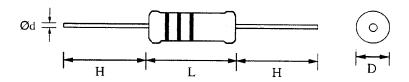
Royal Parts

Carbon Film Fixed Resistors

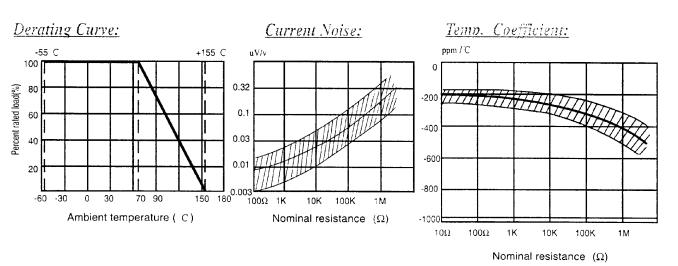
Dimension:



			Z D	mension (m	m) 5 233				
Normal Size									
STYLE	L Max.	D Max.	d ± 0.02	STYLE	L Max.	D Max.	d+0.02 =-0.05	H±3	
CR - 12PS	3.5	1.85	0.5	CR -25PS-S	3.5	1.85	0.5	28	
CR - 25PS	6.8	2.50	0.6	CR -50PS-S	9.0	3.00	0.6	28	
CR - 50PS	10.0	3.50	0.6	CR -50PS-SS	6.8	2.50	0.6	28	
CR - 100PS	16.0	5.50	0.8	CR -100PS-S	12.0	5.00	0.7	28	
CR - 200PS	17.5	6.50	0.8	CR -200PS-S	16.0	5.50	0.8	28	
*Flame retardant type available			CR -300PS-S	17.5	6.50	0.8	28		

Rating							
STYLE	Rating	Max. Working Voltage	Max. Overload	Dielectric Withstanding Voltage	Resistance Range		
CR - 12/25-S	0.125W	200V	400V	400V	1Ω - 1ΜΩ		
CR - 25/50-SS	0.25W	250V	500V	500V	1Ω - $10 M\Omega$		
CR - 50/-S	0.5W	350V	700V	700V	1Ω - 10MΩ		
CR - 100/-S	1 W	500V	1,000V	1,000V	1Ω - 10MΩ		
CR - 200/-S	2W	500V	1,000V	1,000V	1Ω - 10MΩ		
CR - 300-S	3W	500V	1,000V	1,000V	1Ω - $10M\Omega$		

^{*}Too low or too high ohmic value can be supplied on a case to case basis.



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Characteristics		* Test Method	ls to the second	424.59879	Limits 💢			
	1	istance change per temp. d						
_	R2 -R1	x 106 (PPM/°C)	RANGI		T.C.R			
Temperature coefficient JIS - C- 5202 5.2	R1(t2 - t1)			≤ 10Ω	$0 \sim \pm 350$	0 ~ ± 350PPM/℃		
	Rı: Resistai	nce value at room temperat	ture (ti)	$11\Omega - 99K$ $0 \sim \pm 450P$		0PPM/℃		
	R2: Resistar	nce value at room temp. +	100K-1M 0 ~ - 700		OPPM/C			
	Test pattern	: Room temp., Room temp	0 + 100°C	$1M1\Omega - 10M$ 0 ~ -15001		DPPM/C		
Dielectric withstanding	Resistors sh	all be clamped in the troug	No evidence of flashover mechanical					
voltage	V - block ar	nd shall be tested at AC pote	damage, arcing or insulation break down.					
JIS - C- 5202 5.7		the above list for $60 + 10$						
		change after continuous five						
T	specified be		Time	Resistance change rate is $\pm (1\%+0.05\Omega)$				
Temperature cycling JIS - C - 5202 7.4	1 1	Step Temperature Time			Max. with no evidence of mechanical			
J13 - C - 3202 7.4		-55°C ± 3°C	30 mins	damage.				
	2	Room temp.	10~15 mins	""				
	3	+155°C = 2°C	30 mins	1				
	4	Room temp.	10~15 mins					
Short - time overload	Permanent	resistance change after the	Resistance change rate is $\pm (1\%+0.05\Omega)$					
JIS - C - 5202 5.5	potential of	2.5 times RCWV for 5 sec	Max. with no evidence of mechanical dama					
Load life in humidity				Resist	ance value	\triangle R/R		
		change after 1.000 hours of	.	Normal type	Less than 100KΩ	± 3%		
JIS - C - 5202 7.9	duty cycle o	duty cycle of 1.5 hours "ON", 0.5 hour "OFF" in a humidity			$100 \mathrm{K}\Omega$ or more	± 5°c		
	test chamber controlled at $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and 90 to 95% relative			Flame	Less than 100KΩ	± 5°c		
	humidity.		retardant type	$100 \mathrm{K}\Omega$ or more	± 10°			
Load life				Resistance value		\triangle R/R		
	Permanent resistance change after 1,000 hours operating at			Normal type Les	Less than 56KΩ	± 2%		
JIS - C - 5202 7.10		RCWV with duty cycle of 1.5 hours "ON", 0.5 hour "OFF" at			$56 \mathrm{K}\Omega$ or more	± 3°6		
	$70\% \pm 2\%$ ambient.			Flame	Less than 100KΩ	± 5%		
			retardant type	100KΩ or more	± 10			
Insulation resistance JIS - C - 5202 5.6	V - block ar	all be clamped in the trough ad shall be tested at DC. pot the above list for 60 + 10 /	Insulation resistance is $10.000 \text{ M}\Omega$ Min.					
Terminal strength JIS - C - 5202 6.1	direction of Twist test: Terminal le 6mm from through 360	to a 2.5 kg direct load for 1 the longitudinal axis of th	No evidence of mechanical damage					
Resistance to soldering heat JIS - C - 5202 6.4		resistance change when leady in 350 $^{\circ}\text{C} \pm 10 ^{\circ}\text{C}$ solder	Resistance change rate is $\pm (1\%+0.05\Omega)$ Max. with no evidence of mechanical damage.					
Solderability JIS -C - 5202 6.5	surface free Test temp. o	wered with a new, smooth, from concentrated pinhole of solder: $235 \text{ C} \pm 5 \text{ C}$ in solder: $3 + 0.5 / -0$ second	95% coverage Min.					
Resistance to solvent JIS - C - 5202 6.9 Specimens shall be immersed in a bath of trichroethane. completely for 3 mins with ultrasonic.				No deterioration of protective coating and markings.				