

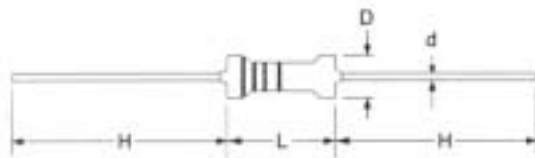
CARBON FILM RESISTORS

● General Specifications

Power Rating		Maximum Working Voltage	Maximum Overload Voltage	Resistance Range	
				±2%(G)	±5%(J)
-	CF-1/6WS	200	400	10 -5.1M	1 -22M
CF-1/4WS	CF-1/4WS	250	500	1 -10M	0.5 -22M
CF-1/2WS	CF-1/2WS	350	700	1 -10M	0.5 -22M
CF-1WS	CF-1WS	500	1000	1 -10M	0.5 -22M
CF-2WS	CF-2WS	500	1000	1 -10M	0.5 -22M

● Dimensions

Type		Dimensions(mm)			
		L	D	H	d
CF-1/4WS	CF-1/6W	3.2±0.3	1.8±0.2	28±2	0.48±0.03
CF-1/2WS	CF-1/4W	6.5±0.5	2.3±0.3	26±2	0.60±0.03
CF-1WS	CF-1/2W	9.0±0.5	3.2±0.5	26±2	0.60±0.03
CF-2WS	CF-1W	12±1.0	4.5±0.5	30±3	0.80±0.05
-	CF-2W	16±1.0	5.0±0.5	28±3	0.80±0.05



● Characteristics

Terminal Strength	no damage. Rmax ±0.3% or 0.5
Soldering	good tining no damage. Rmax ±0.5% or 0.5
Temperature Cycling	Rmax ±0.5%
Vibration	no damage. Rmax ±0.5% or 0.5
Moisture Resistance	Rmax ±3%
Load Life	Rmax ±2.5%
Temperature Coefficient	See Fig-1
Dielectric Strength	2x Work.Volt no breakdown Rmax ±0.5%
Insulation Resistance	Min 10 ¹⁰
Short Time Overload	Rmax ±0.5%
Resistance to Solvents	no damage

- Power Rating
Standard Type: 1/6W , 1/4W , 1/2W , 1W , 2W
Miniature Type: 1/4WS , 1/2WS , 1WS , 2WS
- Tolerance:2% , 5%

- **Remark**

1. Special lead length (H) on request
2. Special resistance on request
3. Flameproof type also available

Derating Curve

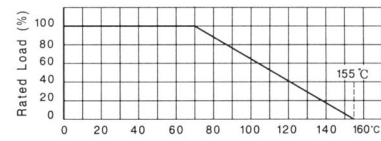


Fig-1 Temperature Coefficient

Maximum value of temperature coefficient ppm/°C		
Under 100 kΩ	100k to 1m Ω excl.	1m Ω and over
+ 350	+ 350	+ 350
- 500	- 700	- 1000