

Carbon Film Resistors

CF Series

MERITEK

FEATURES

- Economically priced for commercial and industrial applications
- Wide selection of power ratings and resistance values
- EIA color coding
- Resistance to industrial solvent
- Standard tape & reel package

PART NUMBERING SYSTEMS

CF 25 103 J TR

Meritek Series

Power Rating

CODE	12	25	50	100	200
	0.125W	0.25W	0.5W	1W	2W

Resistance

First 2 digits are significant

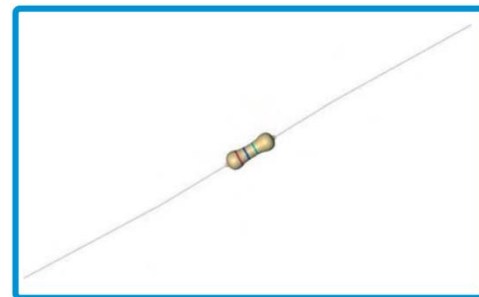
3rd digit is multiplier

"R" indicates decimal for values below 10 ohm

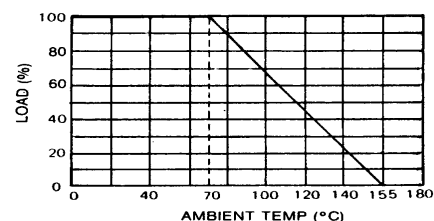
Tolerance

Code	G	J	K
	±2%	±5%	±10%

Tape & Reel



DERATING CURVE



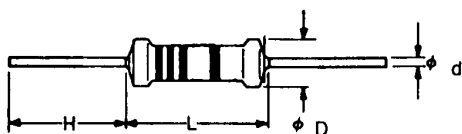
RATING AND AVAILABILITY

Type	CF12	CF25S	CF25	CF50S	CF50	CF100S	CF100	CF200S	CF200
Power rating @ 70°C	0.125W	0.25W	0.25W	0.5W	0.25W	1W	1W	2W	2W
Max working voltage	150V	200V	250V	300V	280V	400V	450V	500V	500V
Max overload voltage	300V	400V	500V	500V	500V	800V	1000V	1000V	1000V
Dielectric withstanding voltage	300V	400V	500V	500V	500V	800V	1000V	1000V	1000V

DIMENSIONS

TYPE	BODY		LEADWIRE	
	(L)	(D)	(H)	(d±0.03)
CF12	3.3 ±0.3	1.8 ±0.3	29±2	0.45
CF25S	3.3 ±0.3	1.8 ±0.3	29±2	0.45
CF25	6.3 ±0.5	2.3 ±0.3	28±2	0.55
CF50S	6.3 ±0.5	2.3 ±0.3	28±2	0.55
CF50	9.0 ±0.5	3.2 ±0.5	26±2	0.65
CF100S	9.0 ±0.5	3.2 ±0.5	26±2	0.65
CF100	11.5 ±1.0	4.5 ±0.5	35±2	0.78
CF200S	11.5 ±1.0	4.5 ±0.5	35±2	0.78
CF200	15.5 ±1.0	5.0 ±0.5	32±2	0.78

DIMENSIONS



REQUIREMENT

PERFORMANCE

Operating Temp Range		-55 to 155°C (derated at 70°C/see chart)	
Temperature Cpefficient (ppm/°C)	ppm/°C	CF100S and <1W	≥1W
	Under 100KΩ	±350ppm	+350ppm~-500ppm
	100KΩ - 1MΩ	0~-500ppm	0~-700ppm
	1MΩ - 4M7Ω	0~-1000ppm	0~-1500ppm
Noise(uV/V)	uV/V	0.125W	0.25W and over
	0.1		1 ohm-10K ohm
	0.3	1 ohm-10K ohm	11K ohm-91K ohm
	0.5	11K ohm-91K ohm	100K ohm-1M ohm
	1.0	100K ohm	1.1M ohm-10M ohm
Short Time Overload		ΔR ≤ ±(0.75% + 0.05 ohm)	
Temperature Cycling		ΔR ≤ ±(0.5% + 0.05 ohm)	
Soldering Effect		ΔR ≤ ±(1% + 0.05 ohm)	
Vibration		ΔR ≤ ±(0.5% + 0.05 ohm)	
Moisture Resistance	R > 100K	ΔR ≤ ±5%	
	R ≤ 100K	ΔR ≤ ±(3% + 0.05 ohm)	
Load Life		±(3%+0.05 ohm)	

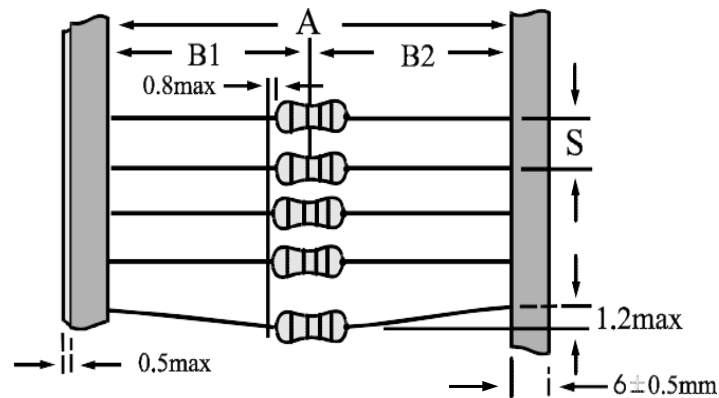
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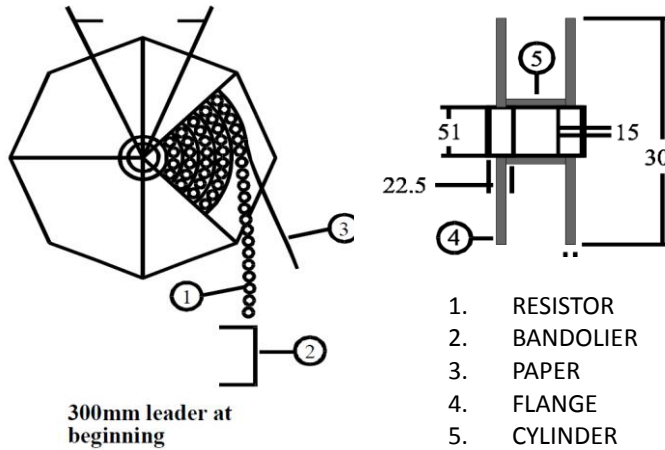
TAPING SPECIFICATION

Bandoleer for Axial leads

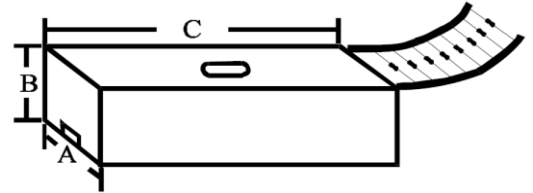


STYLE	DIMENSIONS (mm)			
Type	A	B1-B2	S(spacing)	Max. deviation of spacing
1/8W	52~53	1.2	5	1 mm per 10 spacing
1/6W				
1/4WS	26~27	1		
0.4W(0204)				
1/2WSS				
1/4W	52~53	1.2	5	
1/2WS				
0.6W(0207)	26~27	1		
1WSS				
1/3W	52~53	1.2	5	
1/2W	52~53	1.2	5	
1WS				
2WSS				
1W	52~53	1.5	5	
2WS				
3WSS	73~74			
2W	52~53	1.5	10	
3WS				
4WSS				
3W	52~53	1.5	10	
5WS	73~74	1.5	10	
5W	88~89	1.5	10	
7WS				

TAPE ON REEL PACKING



TAPE ON BOX PACKING



STYLE	TAPE ON REEL		TAPE ON BOX			
Type	Across Flange(A)	Qty Per Reel	W(A)	H(B)	L(C)	Qty Per Box
1/8W	72	5000	80	75	264	5000
1/6W						
1/4WS						
0.4W(0204)						
1/2WSS						
1/4W	72	5000	80	105	264	5000
1/2WS						
0.6W(0207)						
1WSS						
1/3W	72	5000	80	35	264	1000
1/2W	72	2500	80	46	264	1000
1WS						
2WSS						
1W						
2WS	95	2000	103	82	265	1000
3WSS						
2W						
3WS	95	1000	103	96	265	1000
4WSS						
3W						
5WS	95	1000	105	75	270	500
5W						
7WS						
	110	500	115	75	270	250