

High Voltage Resistors



Carbon Film Resistors

Cableform - Beman

HIGH VOLTAGE RESISTORS UP TO 125KV

Type	Volts Max.	Watts Max.	Dimensions - Inches				Resistance Values In Ohms		Available End Terminations
			L	D	ID	FD	Min.	Max.	
CFA	2,500	.5	3/4	1/4			10K	1G	W
CFB	5,000	1	1 1/2	1/4			20K	2G	W
CFC	3,500	1	1	5/16			10K	5G	L, W, FC
CFD	10,000	2	1 3/4	5/16			10K	10G	L, W, FC
CFE	15,000	3	3	5/16	N/A	N/A	20K	15G	L, W, FC
CFF	30,000	5	5 1/2	5/16			40K	25G	L, W, FC
CFG	15,000	4	2 1/2	9/16			20K	25G	L, W
CFH	25,000	6	4	9/16			40K	25G	L, W
CFJ	40,000	10	6 1/2	9/16			70K	25G	L, W
CJA	25KV	10	4 1/2	3/4	1/2	-	50K	100G	B
CJB	35KV	20	6 1/2	1 1/8	3/4	1 3/16	100K	100G	B, F
CJC	65KV	30	10 1/2	1 1/8	3/4	1 3/16	200K	100G	B, F
CJD	90KV	60	14 1/2	1 1/2	1 1/8	1 9/64	400K	100G	B, F
CJE	40KV	35	6 1/2	2	1 9/16	1 9/64	300K	100G	B, F
CJF	125KV	100	18 1/2	2	1 9/16	1 9/64	700K	100G	B, F

Sleeving available on request

Standard Tolerances are: 15%, 10%, 5%, and 3%.

HIGH MEGOHM RESISTORS

Type	Volts Max.	Watts Max.	Dimensions - Inches		Resistance Values In Ohms		Available End Terminations
			L	D	Min.	Max.	
HFA	2,500	.5	$\frac{3}{4}$	$\frac{1}{4}$	1M	10G	W
HFB	5,000	1	$1\frac{1}{2}$	$\frac{1}{4}$	1M	15G	W
HFC	3,500	1	1	$\frac{5}{16}$	1M	10G	L, W, FC
HFD	10,000	2	$1\frac{3}{4}$	$\frac{5}{16}$	1M	20G	L, W, FC
HFE	15,000	2	3	$\frac{5}{16}$	1M	35G	L, W, FC
HFF	30,000	5	$5\frac{1}{2}$	$\frac{5}{16}$	1M	75G	L, W, FC
HFG	15,000	4	$2\frac{1}{2}$	$\frac{9}{16}$	1M	50G	L, W
HFH	25,000	6	4	$\frac{9}{16}$	1M	90G	L, W
HFJ	40,000	10	$6\frac{1}{2}$	$\frac{9}{16}$	1M	150G	L, W

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Standard Tolerances are: 15%, 10%, 5%, and 3%.

HIGH FREQUENCY RESISTORS

Type	Volts Max.	Watts Max.	Dimensions - Inches				Resistance Values In Ohms		Available End Terminations
			L	D	ID	FD	Min.	Max.	
SFA	400	.5	$\frac{3}{4}$	$\frac{1}{4}$			20	20M	W
SFB	800	1	$1\frac{1}{2}$	$\frac{1}{4}$			25	40M	W
SFC	500	1	1	$\frac{5}{16}$			20	25M	L, W, FC
SFD	1,000	2	$1\frac{3}{4}$	$\frac{5}{16}$			25	50M	L, W, FC
SFE	2,000	3	3	$\frac{5}{16}$	N/A	N/A	35	100M	L, W, FC
SFF	3,700	5	$5\frac{1}{2}$	$\frac{5}{16}$			60	100M	L, W, FC
SFG	1,500	4	$2\frac{1}{2}$	$\frac{9}{16}$			20	50M	L, W
SFH	2,800	6	4	$\frac{9}{16}$			25	75M	L, W
SFJ	4,500	10	$6\frac{1}{2}$	$\frac{9}{16}$			40	100M	L, W
SJA	3,000	10	$4\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	-	20	50M	B
SJB	4,000	20	$6\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{13}{16}$	20	50M	B, F
SJC	7,000	30	$10\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{13}{16}$	30	100M	B, F
SJD	10,000	60	$14\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{19}{64}$	35	100M	B, F
SJE	4,500	35	$6\frac{1}{2}$	2	$\frac{19}{16}$	$\frac{19}{64}$	20	35M	B, F
SJF	12,500	100	$18\frac{1}{2}$	2	$\frac{19}{16}$	$\frac{19}{64}$	30	100M	B, F

Sleeving available on request

Standard Tolerances are: 20%, 15%, 10%, and 5%.

PRECISION TOLERANCE RESISTORS

Type	Volts Max.	Watts Max.	Dimensions - Inches		Resistance Values In Ohms		Available End Terminations
			L	D	Tol.±2%	Tol.±1%	
MP-1	5KV	1	1 ¹ / ₂	3/ ₄	2G	1G	W
MP-2	10KV	2	2	5/ ₁₆	10G	5G	L, W, FC
MP-4	20KV	4	3 ¹ / ₂	5/ ₁₆	20G	10G	L, W, FC
MP-6	30KV	6	6	5/ ₁₆	30G	10G	L, W, FC
MP-8	30KV	8	5	9/ ₁₆	50G	10G	L, W
MP-10	60KV	10	11	5/ ₁₆	50G	10G	L, W, FC
MP-12	50KV	12	8	9/ ₁₆	50G	10G	L, W
MP-20	80KV	20	13	9/ ₁₆	50G	10G	L, W
SP-1	5KV	1	1 ¹ / ₂	3/ ₄	20G	15G	W
SP-2	10KV	2	2	5/ ₁₆	30G	25G	L, W, FC
SP-4	20KV	4	3 ¹ / ₂	5/ ₁₆	20G	15G	L, W, FC
SP-6	30KV	6	6	5/ ₁₆	40G	25G	L, W, FC
SP-8	30KV	8	5	9/ ₁₆	70G	25G	L, W
SP-10	60KV	10	11	5/ ₁₆	100G	25G	L, W, FC
SP-12	50KV	12	8	9/ ₁₆	100G	25G	L, W
SP-20	80KV	20	13	9/ ₁₆	100G	25G	L, W

Sleeving available on request

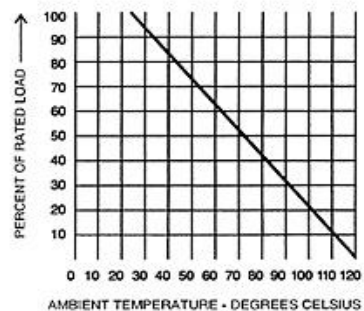
Standard Tolerances are: 1% and 2%.

TEST DATA

Voltage and Temperature Characteristics

Type	Voltage Coefficient Neg. PPM / V Avg.	Temperature Coefficient Neg. PPM / °C Avg.
CFA	20-50	1100-4000
CFB	10-25	1100-4000
CFC	15-40	1100-5000
CFD	7-20	1000-4800
CFE	4-10	950-4400
CFF	2-6	900-4200
CFG	3-7.5	900-4200

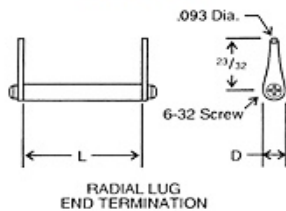
Power Derating



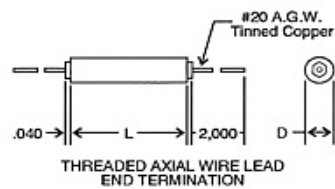
CFH	1.5-4.5	875-4100
CFJ	1-2.5	850-4000
All SF Types	Less than 15% of Value at Max. Voltage	2000-5000
CJA	1.25-3.5	850-4900
CJB	.6-1.7	775-4500
CJC	.35-.9	725-4300
CJD	.2-.5	700-4000
CJE	.35-1	730-4200
CJF	.1-.25	675-3800
All SJ Types	Less than 15% of Value at Max. Voltage	2000-5000

HF Types are approximately 30% lower in V.C. and 10% lower in T.C. as compared to the CF Types

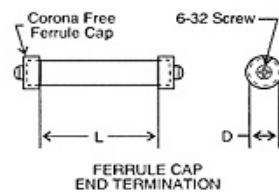
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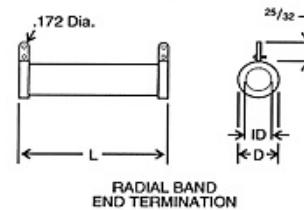
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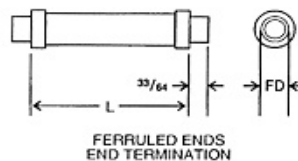
Order as - FC



Order as - B



Order as - F



- Dielectric epoxy varnish protective coating.
- All Dimensional Tolerances $\pm \frac{1}{64}$ or 1% whichever is greater.
- If units are to be operated near maximum limits, at elevated ambient, or in a coolant, order resistors without sleeving.
- Special values or configurations are available upon request.
- Custom resistors are available upon request.