



Features:

- Automatically insertable
- High quality performance
- Non-flame type available
- Cost effective and commonly used
- Too low or too high values can be supplied on a case to case basis

Performance Specifications:

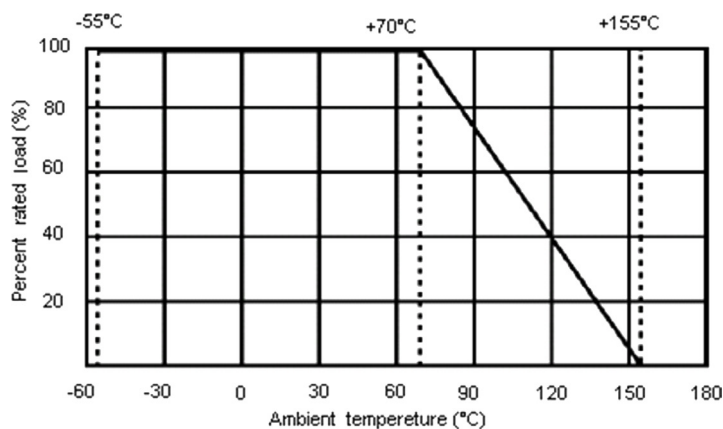
Temperature coefficient	: $\pm 350\text{PPM}/^{\circ}\text{C}$ for $\leq 10\Omega$: $\pm 450\text{PPM}/^{\circ}\text{C}$ for 11Ω to $99\text{k}\Omega$: 0 to $-700\text{PPM}/^{\circ}\text{C}$ for $100\text{k}\Omega$ to $10\text{M}\Omega$: 0 to $-1500\text{PPM}/^{\circ}\text{C}$ for $1.1\text{M}\Omega$ to $10\text{M}\Omega$
Short-time overload	: $\Delta R/R \leq \pm(1.0\% + 0.05\Omega)$, with no evidence of mechanical damage
Minimum insulation resistance	: $10,000\text{ M}\Omega$
Dielectric withstanding voltage	: No evidence of flashover, mechanical damage, arcing or insulation breakdown
Terminal strength	: No evidence of mechanical damage
Resistance to soldering heat	: $\Delta R/R \leq \pm(1.0\% + 0.05\Omega)$, with no evidence of mechanical damage
Minimum solderability	: 95% coverage
Resistance to solvent	: No deterioration of protective coating and markings
Temperature cycling	: $\Delta R/R \leq \pm(1.0\% + 0.05\Omega)$, with no evidence of mechanical damage
Load life in humidity	: Normal type : $\Delta R/R \pm 3\%$ for $< 100\text{k}\Omega$, $\pm 5\%$ for $\geq 100\text{k}\Omega$: Non-flame type : $\Delta R/R \pm 5\%$ for $< 100\text{k}\Omega$, $\pm 10\%$ for $\geq 100\text{k}\Omega$
Load life	: Normal type : $\Delta R/R \pm 2\%$ for $< 56\text{k}\Omega$, $\pm 3\%$ for $\geq 56\text{k}\Omega$: Non-flame type : $\Delta R/R \pm 5\%$ for $< 100\text{k}\Omega$, $\pm 10\%$ for $\geq 100\text{k}\Omega$
Operating temperature	: -55°C to $+155^{\circ}\text{C}$

Specification Table

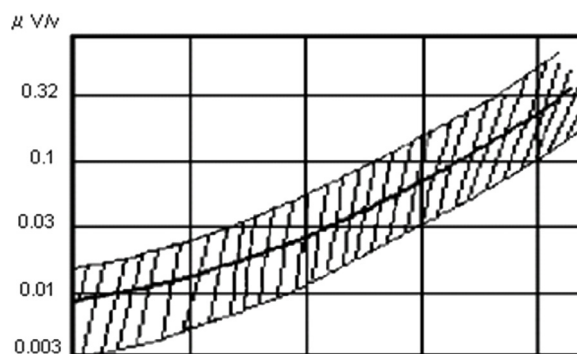
Series	Power Rating at 70°C (W)	Maximum Working Voltage (V)	Maximum Overload Voltage (V)	Dielectric Withstanding Voltage (V)	Resistance Range
MCF 0.5W	1/2 (0.5)	350	700	700	$1\Omega \sim 10\text{M}\Omega$

Note: Standard E - 24 series values in $\pm 5\%$ tolerance.

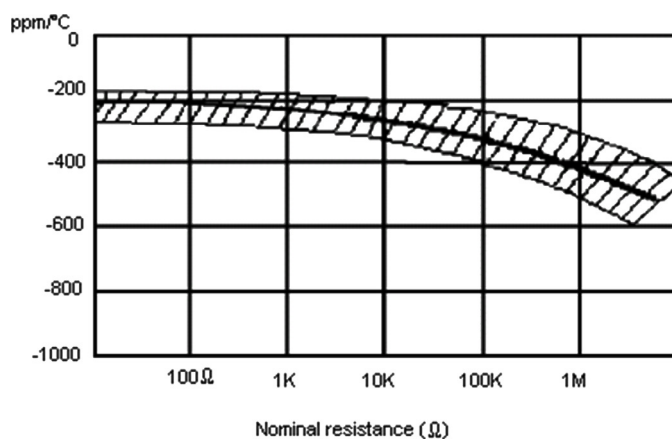
Derating Curve



Current Noise



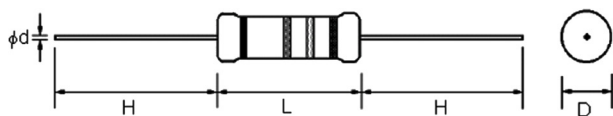
Temperature Coefficient



E6	E12	E24	E96	E6	E12	E24	E96	E6	E12	E24	E96
10	10	10	10				21.5				46.4
			10.2	22	22	22	22.1	47	47	47	47.5
			10.5				22.6				48.7
			10.7				23.2				49.9
		11	11				23.7			51	51.1
			11.3			24	24.3				52.3
			11.5				24.9				53.6
			11.8				25.5				54.9
	12	12	12.1				26.1		56	56	56.2
			12.4				27.7				57.6
			12.7		27	27	27.4				59
		13	13				28				60.4
			13.3				28.7			62	61.9
			13.7				29.4				63.4
			14			30	30.1				64.9
			14.3				30.9				66.5
			14.7				31.6	68	68	68	68.1
							32.4				69.8
15	15	15	15	33	33	33	33.2				71.5
			15.4				34				73.2
			15.8				34.8			75	75
		16	16.2				35.7				76.8
			16.5				36.5				78.7
			16.9			36	37.4				80.6
			17.4				38.3				82.5
			17.8				39.2	82	82	82	82.5
	18	18	18.2		39	39	40.2				84.5
			18.7				41.2				86.6
			19.1				42.2				88.7
			19.6				43.2			91	90.9
		20	20			43	44.2				93.1
			20.5				45.3				95.3
			21								97.6

Above values in accordance with IEC Publication 63 (1963) and BS2488

Dimensions:



Maximum Diameter (D)	Maximum Length (L)	Height (H ± 3)	Lead Diameter (D ± 0.05)
3	9	28	0.6

Dimensions : Millimetres

Part Number Table

Description	Part Number
Resistor Kit, 0.5W, 5%, E6	CFR0S2JE006KIL

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