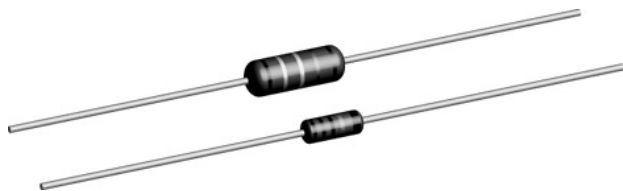


Metal Film Resistors, Industrial, $\pm 1\%$ Tolerance



FEATURES

- Power Ratings: 1/4, 1/2, 3/4 and 1 W at + 70 °C
- ± 100 ppm/°C temperature coefficient
- Superior electrical performance
- Flame retardant epoxy conformal coating
- Standard 5 band color code marking for ease of identification after mounting
- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Lead (Pb)-free version is RoHS compliant



RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70\text{ }^{\circ}\text{C}}$ W	LIMITING ELEMENT VOLTAGE MAX. V_{Ξ}	TEMPERATURE COEFFICIENT ppm/°C	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CCF55	CCF-55	0.25/0.5	250	± 100	± 1	10R - 3.01M	96
CCF60	CCF-60	0.50/0.75/1.0	500	± 100	± 1	10R - 1M	96

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CCF55	CCF60
Rated Dissipation at 70 °C	W	0.25/0.5	0.5/0.75/1.0
Maximum Working Voltage	V_{Ξ}	≤ 250	≤ 500
Insulation Voltage (1 min)	V_{eff}	500	500
Dielectric Strength	V_{AC}	450	450
Insulation Resistance	Ω	$\geq 10^{11}$	$\geq 10^{11}$
Operating Temperature Range	°C	- 65/+ 165	- 65/+ 165
Terminal Strength (pull test)	lb	2	2
Weight	g	0.35 max	0.75 max

GLOBAL PART NUMBER INFORMATION

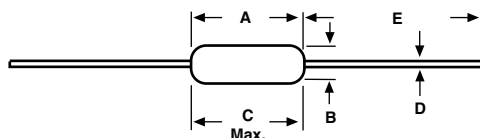
New Global Part Numbering: CCF55301RFKR36 (preferred part numbering format)

C	C	F	5	5	3	0	1	R	F	K	R	3	6			
GLOBAL MODEL		RESISTANCE VALUE				TOLERANCE CODE		TEMPERATURE COEFFICIENT		PACKAGING			SPECIAL			
CCF55 CCF60		R = Decimal K = Thousand M = Million 10R0 = 10 Ω 680K = 680 kΩ 1M00 = 1.0 MΩ				F = ± 1 %		K = 100 ppm		E36 = Lead (Pb)-free, CCF55 = T/R (5000 pieces) CCF60 = T/R (2500 pieces) R36 = Tin/Lead, CCF55 = T/R (5000 pieces) CCF60 = T/R (2500 pieces)			Blank = Standard (Dash Number) (up to 3 digits) From 1 - 999 as applicable			

Historical Part Number example: CCF-553010F (will continue to be accepted)

CCF-55	3010	F	R36
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

* Pb containing terminations are not RoHS compliant, exemptions may apply

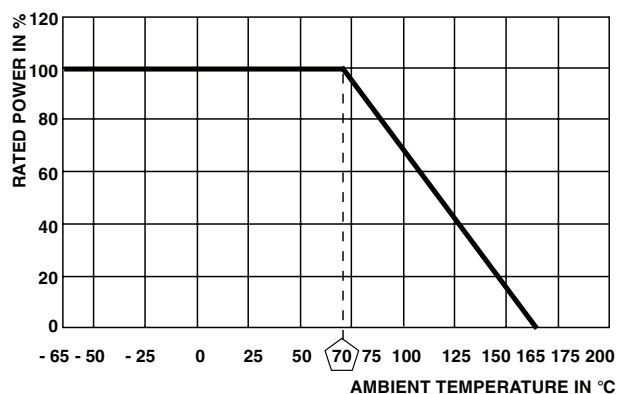
DIMENSIONS in inches [millimeters]


GLOBAL MODEL	A	B	C (Max.)	D	E
CCF55 (Sn/Pb)	0.245 ± 0.020 [6.22 $\pm$ 0.51]	0.090 ± 0.008 [2.29 $\pm$ 0.20]	0.265 [6.73]	0.025 ± 0.002 [0.64 $\pm$ 0.05]	1.100 ± 0.040 [27.94 $\pm$ 1.02]
CCF55 (Sn)	0.245 ± 0.020 [6.22 $\pm$ 0.51]	0.090 ± 0.008 [2.29 $\pm$ 0.20]	0.265 [6.73]	0.023 ± 0.002 [0.60 $\pm$ 0.05]	1.100 ± 0.040 [27.94 $\pm$ 1.02]
CCF60	0.344 ± 0.031 [8.74 $\pm$ 0.79]	0.139 ± 0.009 [3.53 $\pm$ 0.23]	0.400 [10.16]	0.025 ± 0.002 [0.64 $\pm$ 0.05]	1.000 ± 0.040 [25.40 $\pm$ 1.02]

RESISTANCE VALUES

Vishay Dale Models CCF55 and CCF60 are available in the standard 96 resistance values per decade. Values are obtained from the following decade table by multiplying by powers of 10. As an example: 30.1 can represent 30.1 Ω , 301 Ω , 3.01 k Ω , 30.1 k Ω or 301 k Ω .

10.0	14.7	21.5	31.6	46.4	68.1
10.2	15.0	22.1	32.4	47.5	69.8
10.5	15.4	22.6	33.2	48.7	71.5
10.7	15.8	23.2	34.0	49.9	73.2
11.0	16.2	23.7	34.8	51.1	75.0
11.3	16.5	24.3	35.7	52.3	76.8
11.5	16.9	24.9	36.5	53.6	78.7
11.8	17.4	25.5	37.4	54.9	80.6
12.1	17.8	26.1	38.3	56.2	82.5
12.4	18.2	26.7	39.2	57.6	84.5
12.7	18.7	27.4	40.2	59.0	86.6
13.0	19.1	28.0	41.2	60.4	88.7
13.3	19.6	28.7	42.2	61.9	90.9
13.7	20.0	29.4	43.2	63.4	93.1
14.0	20.5	30.1	44.2	64.9	95.3
14.3	21.0	30.9	45.3	66.5	97.6


DERATING
MARKING

- Color band

PERFORMANCE

POWER RATING at + 70 °C		
CCF55	1/4 W	1/2 W
CCF60	1/2 W	3/4 W and 1 W
TEST ⁽¹⁾	MAXIMUM ΔR	MAXIMUM ΔR
Thermal Shock	$\pm 0.5\%$	-
Short Time Overload	$\pm 0.5\%$	-
Low Temperature Operation	$\pm 0.5\%$	-
Moisture Resistance	$\pm 1.5\%$	-
Resistance to Soldering Heat	$\pm 0.5\%$	-
Shock/Bump	$\pm 0.5\%$	-
Vibration	$\pm 0.5\%$	-
Life	$\pm 0.5\%$	$\pm 1.0\%$
Terminal Strength	$\pm 0.2\%$	-
Dielectric Withstanding Voltage	$\pm 0.5\%$	-

Note:
⁽¹⁾ Test Methods per MIL-STD-202G/IEC 60115/DIN EN140000 (as applicable).



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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