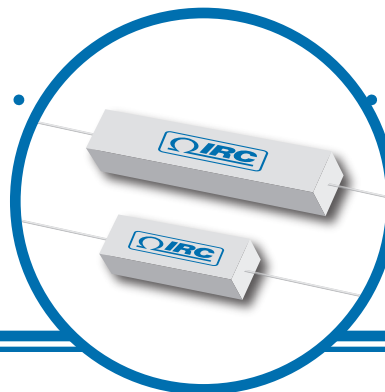


Commercial Grade Axial Lead Power Wirewound & Film Resistor

CAW/CAF Series

- Power ratings from 2W to 10W
- Non-inductive winding available
- Standard tolerance $\pm 5\%$ and $\pm 10\%$
- Resistance range from 0.1Ω to $200K\Omega$
- Flameproof ceramic case with inorganic potting material



Electrical Data

IRC Type	Power Rating at 25°C (W)	Resistance Range* (Ohms)	Tolerance (±%)	Temperature Coefficient of Resistance (±ppm/°C)
Wirewound Type (CAW)				
CAW-2	2	0.1 - 27	5, 10	400 (<20Ω) 350 (≥20Ω)
CAW-3	3	0.1 - 39	5, 10	
CAW-5	5	0.1 - 47	5, 10	
CAW-7	7	0.1 - 680	5, 10	
CAW-10	10	0.1 - 910	5, 10	
CAW-15	15	1.0 - 1K	5, 10	
CAW-20	20	2.0 - 1.2K	5, 10	
CAW-25	25	2.0 - 1.2K	5, 10	
CAW-2A	2	0.1 - 27	5, 10	
CAW-5A	5	0.1 - 47	5, 10	
CAW-7A	7	0.1 - 680	5, 10	
CAW-10A	10	0.1 - 910	5, 10	
Film Type (CAF)				
CAF-2	2	28 - 33K	5, 10	400 (<20Ω) 350 (≥20Ω)
CAF-3	3	40 - 56K	5, 10	
CAF-5	5	48 - 100K	5, 10	
CAF-7	7	681 - 200K	5, 10	
CAF-10	10	911 - 200K	5, 10	
CAF-15	15	1.1K - 200K	5, 10	
CAF-20	20	1.3K - 200K	5, 10	
CAF-2A	2	28 - 33K	5, 10	
CAF-5A	5	48 - 100K	5, 10	
CAF-7A	7	681 - 200K	5, 10	
CAF-10A	10	911 - 200K	5, 10	

General Note

IRC reserves the right to make changes in product specification without notice or liability.
All information is subject to IRC's own data and is considered accurate at time of going to print.

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A subsidiary of
TT electronics plc

Commercial Grade Axial Lead Power Wirewound & Film Resistor



Environmental Data

Short-time overload	$\pm 5\% + 0.05\Omega$; 2.5 x nominal power for 5 seconds
Dielectric withstanding voltage	1000Vac
Resistance to Soldering heat	$\pm 5\% + 0.05\Omega$
Operating temperature range	-55°C to 275°C

Physical Data

CAW-X / CAF-X Type

The diagram illustrates the dimensions of a CAW-X / CAF-X type resistor. It features a central rectangular body with a dot in the center. To the left of the body is a rectangular pad with width W and height D. To the right of the body is a rectangular pad with width H and height d. The length of the central body is L. The distance between the left pad and the central body is L. The distance between the central body and the right pad is H. The distance between the left pad and the right pad is L + H.

CAW-XA / CAF-XA Type

The diagram illustrates the dimensions of a CAW-XA / CAF-XA type resistor. It features a central rectangular body with rounded ends. To the left of the body is a rectangular pad with width H and height d. To the right of the body is a rectangular pad with width H and height d. The length of the central body is L. The distance between the left pad and the central body is H. The distance between the central body and the right pad is H. The distance between the left pad and the right pad is L + 2H.

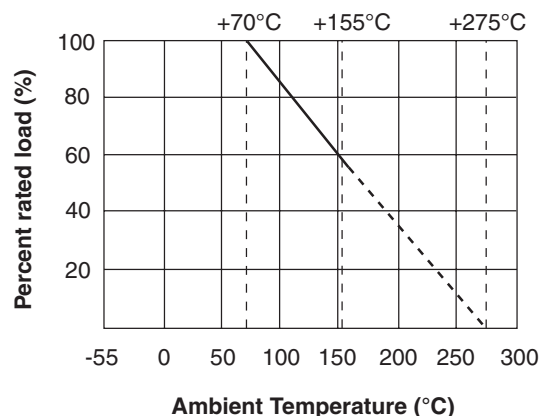
Dimensions (mm)

Wirewound Type	IRC Type(s) Film Type	W (±1)	D (±1)	L (±1)	H (±5)	d (±0.02)
CAW-2	CAF-2	7.0	7.0	18.0	28.0	0.7
CAW-3	CAF-3	8.0	8.0	22.0	22.0	0.7
CAW-5	CAF-5	10.0	9.0	22.0	22.0	0.8
CAW-7	CAF-7	10.0	9.0	35.0	35.0	0.8
CAW-10	CAF-10	10.0	9.0	49.0	35.0	0.8
CAW-15	CAF-15	12.5	11.5	49.0	35.0	0.8
CAW-20	CAF-20	14.5	13.5	60.0	35.0	0.8
CAW-25	-	14.5	13.5	64.0	35.0	0.8
CAW-2A	CAF-2A	7.0	7.0	18.0	28.0	0.7
CAW-5A	CAF-5A	10.0	9.0	22.0	35.0	0.8
CAW-7A	CAF-7A	10.0	9.0	35.0	35.0	0.8
CAW-10A	CAF-10A	10.0	9.0	49.0	35.0	0.8

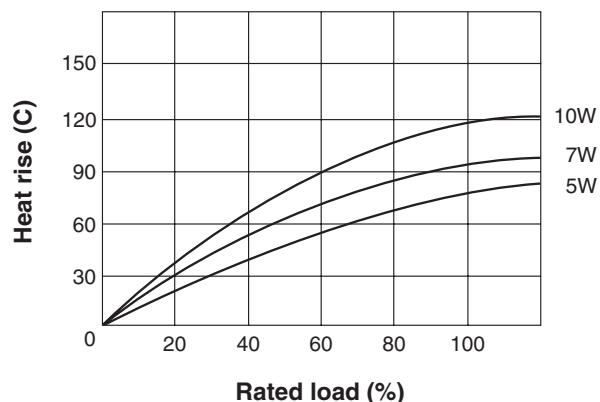
Commercial Grade Axial Lead Power Wirewound & Film Resistor



Power Derating Curve



Heat Rise Chart



Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging. This example is for a Ceramic Axial Film, 2-watt, 1000Ω resistor.

Sample Part No.....	CAF	2	1001	J	LF	BLK
IRC Type.....						
CAF - Ceramic Axial Film CAW - Ceramic Axial Wirewound						
Power rating..... (see specs table)						
Resistance Value (EIA 4-digit code)..... (≥100Ω - First 3 significant digits plus 4th digit multiplier) Example: 100Ω = 1000; 1000Ω = 1001 (>100Ω - "R" is used to designate decimal) Example: 10Ω = 10R0; 0.25Ω = R250						
Tolerance (EIA format)..... J = ±5% K = ±10%						
RoHS - Compliance..... LF = RoHS compliant construction						
Packaging..... BLK = bulk packaging						