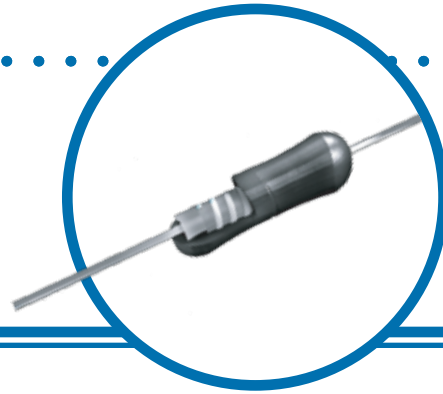


Ultra Precision Metal Film Resistor



CAR Series

- RoHS Compliant
- High stability metal film
- Low noise, high reliability
- Ultra low temperature coefficient
- Matched tolerance and TCR sets available - contact factory



Electrical Data

Commercial	CAR5LF	CAR6LF	CAR7LF
Power Rating @70°C (W)	0.25	0.33	0.50
Power Rating @85°C (W)	0.125	0.25	0.25
Resistance Range (Ω)	10R0-500K	10R0-1M00	50R0-1M50
Rated Operating Voltage (not to exceed \sqrt{PxR} (V)	300	400	500
TCR -20°C to +85°C (ppm/°C)	V = ± 5 , T = ± 10 , Y = ± 15 , D = ± 25		
Resistance Tolerance (%)	L = ± 0.01 , P = ± 0.02 , W = ± 0.05 , B = ± 0.10 , C = ± 0.25 , D = ± 0.50 , F = ± 1.0		
Operating Temperature Range	-55°C to +155°C		
Lead Material	OFHC Tin Coating		

Environmental Data

	Test Conditions	Typical Performance
Load Life	1000 Hour, Rated Power +85°C	$\pm 0.02\%$
Humidity	EIA RS-186	$\pm 0.04\%$
Thermal Shock	EIA RS-186	$\pm 0.01\%$
Short Time Overload	EIA RS-186	$\pm 0.01\%$
Dielectric Withstanding Voltage	EIA RS-186	$\pm 0.01\%$
Noise Index	EIA RS-186	<-30dB
Insulation	EIA RS-186	>10000M Ω
Shelf Life	EIA RS-186	<50ppm/year

General Note

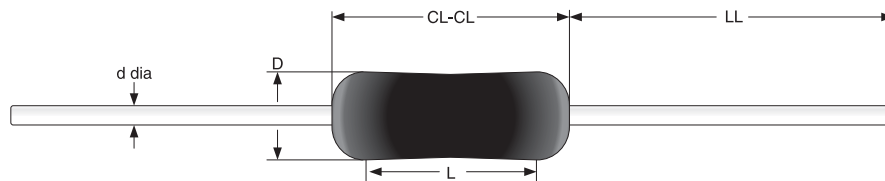
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.



Ultra Precision Metal Film Resistor



Physical Data



Dimensions (inches)

Style	L (max)	D diameter (max)	CL to CL	d (diameter nominal)	Lead Length LL
CAR5LF	0.280	0.102	0.300	0.025 AWG #22	1.50 ± 0.125
CAR6LF	0.416	0.161	0.450	0.025 AWG #22	1.50 ± 0.125
CAR7LF	0.600	0.200	0.685	0.025 AWG #22	1.50 ± 0.125

Packaging Data

The standard packaging is loose in boxes. Taped resistors (on reel or in ammo pack) can also be supplied by special request. A detail taping specification is available on request.

Standard Quantities

Type	CAR5LF	CAR6LF	CAR7LF
Bulk	250	125	50
Ammo	1000	1000	N/A
Reel	1000	2500	N/A

Ordering Data

Sample Part No. **CAR5LF** **C** **6K8** **B** **B**

IRC Type
CAR5LF, CAR6LF, CAR7LF

TCR (see electrical data for code)

Value (USE IEC 62 code)

Tolerance
F = ±1.0%, D = ±0.50%, C = ±0.25%,
B = ±0.10%, W = ±0.05%, P = ±0.02%, L = ±0.01%

Packaging details
A = Ammo Pack; B = Bulk; T = Tape and Reel