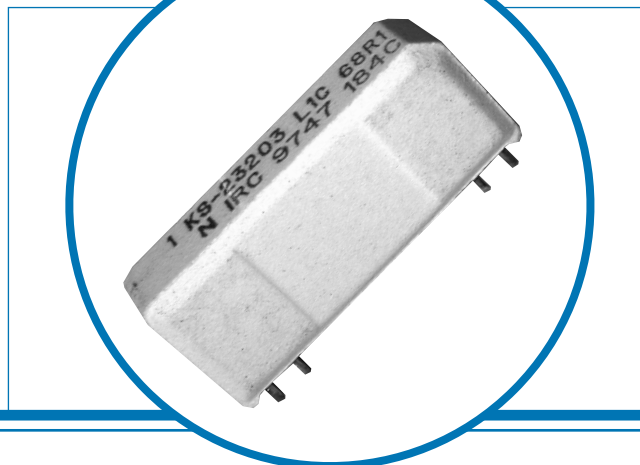


# Telecommunications Line Feed Resistors

## ALFR-2 Series

- Meets all test and specifications of GR-1089 & UL-1459
- Resistance IR8 to 1K6
- Tolerance down to 1%
- Withstands lightning surges
- Flameproof inorganic construction
- Auto-insertable, small size
- Meets FCC, EIA and UL requirements
- UL-497A approved



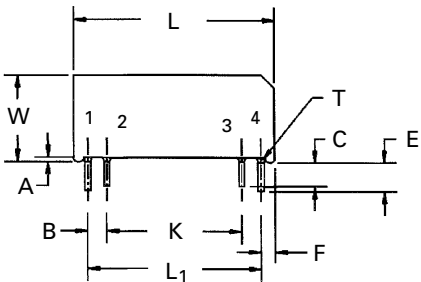
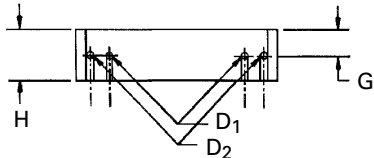
## Electrical Data

		Maximum
Power rating	watts	2
Temperature coefficient	ppm/°C	50
Tolerance	%	1, 5
Load life (1000 hours)	ΔR%	1
Temperature cycling	ΔR%	1
Short time overload (5 x RW for 10 sec.)	ΔR%	1
Moisture load	ΔR%	1
Resistance range	ohms	IR8 to 1K6
Lightning surge (1000 V-10/1000 μsec) 25 negative & 25 positive surges (2 minute intervals)	ΔR%	2

The standard ALFR-2 contains a 128°C thermal fuse. For faster fusing characteristics a 110°C fuse is available.

## Physical Data

Dimensions (Inches)													
L	W	A	B	C	T	E	F	G	H	K	L1	D1Ø	D2Ø
1.045	0.450	0.025	0.100	0.125	0.030	0.150	0.070	0.138	0.265	0.700	0.900	0.023	0.032
±0.020	±0.020	Typ.	±0.015	±0.020		0.020	Typ.	±0.020	±0.020	±0.015	±0.015	Dia.	Dia.

The four (4) terminal leads shall be in line to a tolerance to  $\pm 0.015$  inch. The lead spacing dimensions as specified, shall be measured from the tip of the lead to the top of the lead. The leads may have a 15° draft relative to the protector body.

In circuit applications terminal leads 1 and 2 shall be connected together externally and leads 3 and 4 used for connection of the device. For proper performance and reduction of safety hazards the current flow should be from lead 3 to 4.

### General Note

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

© Welwyn Components Limited · Bedlington, Northumberland NE22 7AA, UK  
Telephone: +44 (0) 1670 822181 · Facsimile: +44 (0) 1670 829465 · Email: info@welwyn-tt.com · Website: www.welwyn-tt.com

**Welwyn**

A subsidiary of  
TT electronics plc

Issue B · 03.02

### Design and Construction

The Line Feed Resistor is a tight tolerance, stable resistor which has the additional capability to withstand both in the rush currents and certain lightning pulse surges but would fuse safely when exposed to overload conditions such as 600 volt power line crosses.

### Packaging

The resistors are supplied in anti-static tubes.

### Fusing Curve

