KOA SPEER ELECTRONICS, INC.

LF, LFF, RK26

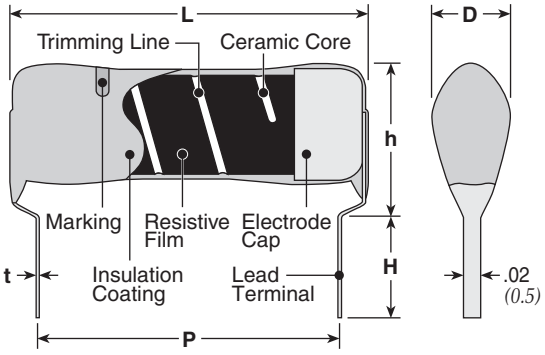
radial metal film leaded resistors

EU RoHS COMPLIANT

features

- Lead frame construction
- High density assembly and excellent self-standing strength
- Marking: Blue body color with color dot marking for resistance and tolerance values
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

dimensions and construction



Type	Dimensions inches (mm)					
	L (max.)	D (max.)	P	H	h (max.)	t
LF1/8	.197 (5.0)	.098 (2.5)	.100±.008 (2.54±0.2)	.236±.039 (6.0±1.0)	.200 (5.08)	.010 (0.25)
LF1/4	.295 (7.5)		.200±.008 (5.08±0.2)	.118±.020 (3.0±0.5)	.217 (5.5)	.012 (0.3)
LF1/4L				.217±.020 (5.5±0.5)		
LF1/2	.378 (9.6)		.300±.012 (7.62±0.3)			
LFF1/4	.285 (7.25)	.100 (2.54)	.200±.012 (5.08±0.3)	.197±.039 (5.0±1.0)		
RK26B2E						

ordering information - LF, LFF

New Part #: LF | 1/4 | C | T | T | A | 1000 | D

Product Code	Power Rating	T.C.R. (ppm/°C)	Termination Surface Material	Taping	Packaging	Nominal Resistance	Resistance Tolerance
LF LFF	1/8: 0.125W 1/4: 0.25W 1/4L: 0.25W 1/2: 0.5W	C: ±50 D: ±100 L: ±200	T: Sn	T: Taping (1/8W, 1/4W only) Blank: Bulk	Ammo (1/8, 1/4 only)	±2%, ±5%: 2 significant figures + 1 multiplier "R" indicates decimal on value <10Ω ±0.5%, ±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω	D: ±0.5% F: ±1% G: ±2% J: ±5%

For 1/4L, only bulk type is available.

ordering information - RK26

New Part #: RK26 | B | 2E | T | T | A | 1003 | F

Product Code	T.C.R. (ppm/°C)	Power Rating	Termination Material	Taping	Packaging	Nominal Resistance	Tolerance
RK26	B: ±350	2E: 0.25W	T: Sn	T: Taping Blank: Bulk	Ammo	±2%, ±5%: 2 significant figures + 1 multiplier "R" indicates decimal on value <10Ω ±0.5%, ±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω	F: ±1% G: ±2% J: ±5%

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

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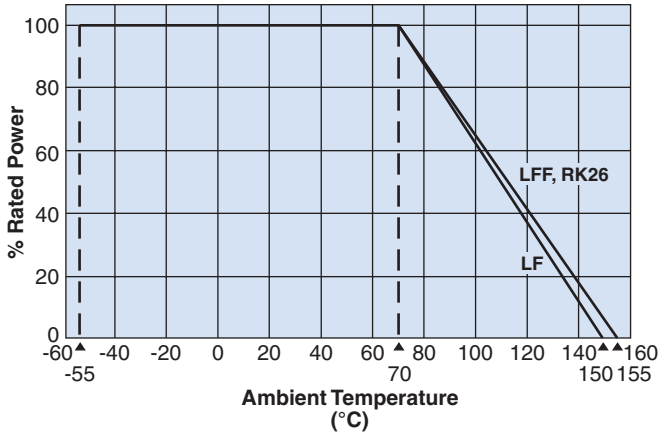
applications and ratings

Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance Range (Ω) D±0.5% E-96	F±1% E-24,E-96	G±2% E-24	J±5% E-24	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Rated Ambient Temperature	Operating Temperature Range
LF1/8	0.125W	C: ±50 D: ±100 L: ±200	45.3 - 562k	4.7 - 1M	1 - 1M	1 - 1M	200V	400V	+70°C	-55°C to +150°C
LF1/4 LF1/4L	0.25W	C: ±50 D: ±100 L: ±200	10 - 1M	10 - 1M	1 - 1M	1 - 1M	250V	500V		
LF1/2	0.5W	C: ±50 D: ±100 L: ±200	10 - 1M	10 - 1M	1 - 1M	1 - 1M	350V	700V		
LFF1/4	0.25W	C: ±50 D: ±100	—	10 - 100k	10 - 100k	—	250V	500V		-55°C to +155°C
RK26B2E	0.25W	B: ±350	—	100K - 22M	100K - 33M	100K - 33M	500V	700V		

environmental applications

Derating Curve



Performance Characteristics

Parameter	Requirement Δ R ±(% + 0.05Ω)	Test Method
Resistance	Within specified tolerance	25°C
T.C.R.	Within specified T.C.R.	Room temperature +100°C
Overload (Short Time)	LF, LFF: ±0.5%, RK26: ±1%	Rated voltage x 2.5 or max. overload voltage for 5 seconds, whichever is less
Resistance to Solder Heat	LF: ±0.25%, LFF: ±0.5%, RK26: ±1%	260°C ± 5°C, 10 seconds ± 1 second or 350°C ± 10°C, 3.5 seconds ± 0.5 second
Rapid Change of Temperature	LF, LFF: ±0.5% RK26: ±1%	LF: -55°C (30 minutes)/+25°C (10 minutes), +150°C (30 minutes)/+25°C (10 minutes), 5 cycles; LFF, RK26: -55°C (30 minutes)/+25°C (10 minutes), +155°C (30 minutes)/+25°C (10 minutes), 5 cycles
Moisture Resistance	LF: ±1%, LFF: ±2%, RK26: ±5%	40°C ±2°C, 90-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance @ 70°C	LF: ±1%, LFF: ±2%, RK26: ±5%	70°C ±3°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle

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