

Carbon Film Resistors, Fusible Type



FEATURES

- Fusible resistor for constant voltage
- Specially spiralled to provide the fusible function
- Lead (Pb)-free solder contacts
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Compatible with "Restriction of the use of Hazardous Substances" (RoHS) directive 2002/95/EC (issue 2004)
- Flame-proof protection



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{70\text{ °C}}$ W	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
LCA0207SI	0.25	+ 300/- 200	± 5	R22 - 1K0	24
LCA0411SI	0.35	+ 300/- 200	± 5	R22 - 1K0	24

Notes:

- Coating: Beige
- Marking: Additional 5th band yellow, see appropriate catalog or web page
- $R_i \geq 6 \Omega$ for $R_N < 10R$
- $R_i \geq 1 \Omega$ for $R_N \geq 10R$

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	LCA0207SI	LCA0411SI
Power Rating at 70 °C	W	0.25	0.35
Overload to Fuse	W	4 (1)	7.0
Time to Fuse (Maximum)	s	15	25
Thermal Resistance	K/W	≤ 220	≤ 150
Terminal Strength, Axial	N	≥ 50	≥ 60
Failure Rate	10 ⁻⁹ /h	< 30	< 30
Category Temperature Range	°C	- 55 to + 125	- 55 to + 125
Weight	g	0.21	0.5
Maximum Applicable Voltage After Fusing	V	20 65 110 150	30 85 140 200
< 1 Ω > 1 Ω... 10 Ω > 10 Ω... 100 Ω > 100 Ω... 1K			

Note:

(1) Overload to fuse < 1 Ω 5 W

PART NUMBER AND PRODUCT DESCRIPTION

PART NUMBER: LCA0411B03609J2100

L	C	A	0	4	1	1	B	0	3	6	0	9	J	2	1	0	0
MODEL/SIZE	SPECIAL CHARACTER	TCR	VALUE	TOLERANCE	PACKAGING (2)	SPECIAL											
LCA0207 LCA0411	B = SI Fusible	0 = Neutral See diagram	3 digit value 1 digit multiplier MULTIPLIER 7 = *10 ⁻³ 8 = *10 ⁻² 9 = *10 ⁻¹ 0 = *10 ⁰ 1 = *10 ¹	J = ± 5 %	D5 = R5 DE = RE 21 = A1(G53) 41 = A1(G73) 12 = A2(G26) 22 = A2(G53) 25 = A5	Up to 2 digits 00 = Standard											

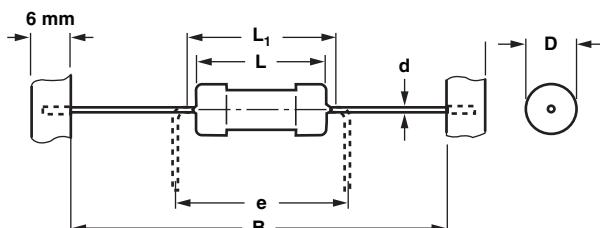
PRODUCT DESCRIPTION: LCA0411SI 36R 5 % A1

LCA0411SI	36R	5 %	A1
MODEL	RESISTANCE VALUE	TOLERANCE	PACKAGING (2)
LCA0207SI LCA0411SI	1K0 = 1 kΩ 10R = 10 Ω	± 5 %	R5 RE A1 (G53) A1 (G73) A2 (G26) A2 (G53) A5

Notes:

(2) Please refer to table PACKAGING, see next page

- The PART NUMBER shown above is to facilitate the unified part numbering system for ordering products

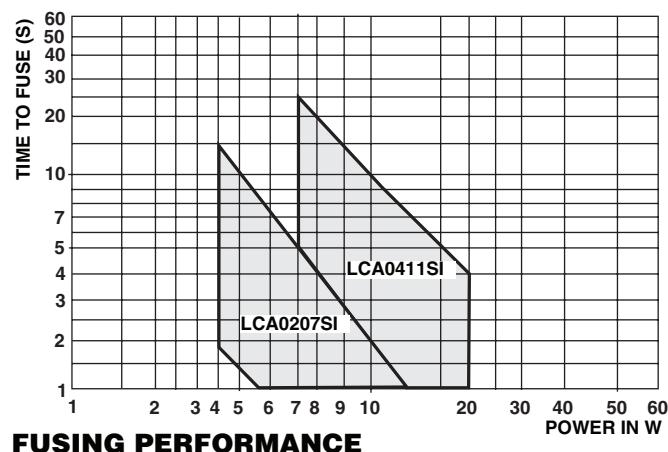
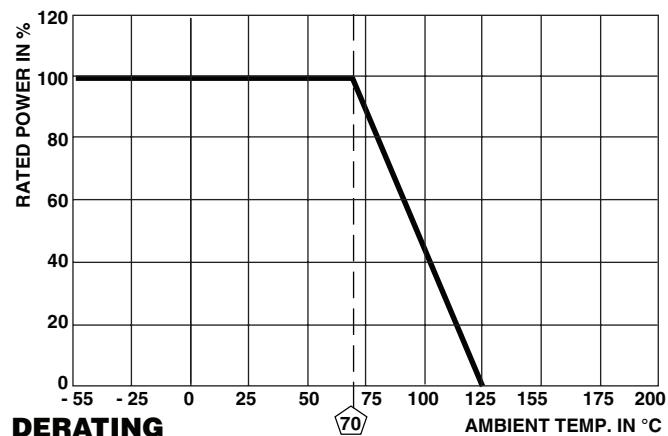
DIMENSIONS

Notes:

- Taping in acc. with IEC60286-1
- D and L measured in accordance with IEC60294
- d according to IEC60301

MODEL	DIMENSIONS [in millimeters]					
	D	L	L ₁ max.	B	d	e
LCA0207SI	2.3 - 0.3	6.1 - 0.5	8.1	53 ± 1 ⁽¹⁾	0.6	7.5
LCA0411SI	3.5 - 0.3	10.5 - 0.6	12.5	53 ± 1 ⁽²⁾	0.7	12.5

Notes:

- (1) Also available in 26 mm tape spacing
- (2) Also available in 73 mm spacing


FUSING PERFORMANCE

DERATING
AMBIENT TEMP. IN °C
PACKAGING

MODEL	PIECES/REEL	CODE	MIN. ORDER QTY PACKAGING UNITS	PIECES/BOX	CODE	MIN. ORDER QTY PACKAGING UNITS
LCA0207SI	5000	R5	1	2000/5000	A2/A5	2/1
LCA0411SI	2500	RE	1	1000	A1	2

Note:

- For further information about packaging see appropriate catalog or web page

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.