

Northbrook, Illinois • (847) 272-8800  
 Melville, New York • (631) 271-6200  
 Santa Clara, California • (408) 985-2400  
 Research Triangle Park,  
 North Carolina • (919) 549-1400  
 Camas, Washington • (360) 817-5500



LITTELFUSE INC  
 MR W TRAVIS, STANDARDS ENGINEER  
 800 E NORTHWEST HWY  
 DES PLAINES IL 60016

**RE: Project Number(s) - 01NK40311**

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database). Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

**XGPU2**  
**Thermistor Type Devices - Component**

May 14, 2002

LITTELFUSE INC  
 800 E NORTHWEST HWY, DES PLAINES IL 60016

E183209

**PTC Current Limiter:**

Model No.	Voltage (V)	Current (A)				Tmoa (C)	Class	CA
		Ih	It	Imax	Isc			
2029S100+	15 dc	1.1	2.2	8.0	40	25	C2	2,3,4,#
2029L125+	15 dc	1.25	2.5	8.0	40	25	C2	2,3,4,#
3425L150+	15 dc	1.5	3.0	8.0	40	25	C2	2,3,4,#
3425L200+	15 dc	2.0	4.0	8.0	40	25	C2	2,3,4,#
3425L250+	15 dc	2.5	5.0	8.0	40	25	C2	2,3,4,#
3425L300	6 dc	3.0	6.0	15.0	40	25	C2	2,3,4,#
1812X110++	6 dc	1.1	2.2	8.0	40	25	C2	2,3,4,#
1812X110+++								
1812X075++	13.2 dc	0.75	1.5	8.0	40	25	C2	2,3,4,#
1812X020	30 dc	0.2	0.4	8.0	10	25	C3	2,3,4,#
1812X050++	15 dc	0.5	1.0	8.0	40	25	C2	2,3,4,#
1812X150++	6 dc	1.5	3.0	8.0	40	25	C3	2,3,4,#
1812X125++	6 dc	1.25	2.5	8.0	40	25	C3	2,3,4,#
1812X200MR++	6 dc	2.0	4.0	8.0	40	25	C2	2,4,5,#
1812X260MR++	6 dc	2.6	5.2	8.0	40	25	C2	2,4,5,#
1206X050+++	6	0.5	1.0	8.0	40	25	C1	1(110),2,3,4,#
1206X075+++	6	0.75	1.5	8.0	40	25	C1	1(110),2,3,4,#
1206X110+++	6	1.1	2.2	8.0	40	25	C1	1(110),2,3,4,#
1206X150	6	1.5	3.0	8.0	40	25	C2	1(112),2,3,4,#
1206X035	6	0.35	0.7	8.0	40	25	C1	1(103),2,3,4,#
1206X025	15	0.25	0.5	8.0	40	25	C1	1(100),2,3,4,#
1206X020	15	0.20	0.4	8.0	40	25	C1	1(100),2,3,4,#
1812X050PRT	15 dc	0.5	1.0	8.0	40	25	C2	2,3,4,#
1812X075PRT	13.2 dc	0.75	1.5	8.0	40	25	C1	2,3,4,#

Model No.	Voltage (V)	Current (A)				Tmoa (C)	Class	CA
		Ih	It	Imax	Isc			
1812X110PRT	6 dc	1.1	2.2	8.0	40	25	C2	2,3,4,#
1812X125PRT	6 dc	1.25	2.5	8.0	40	25	C2	2,3,4,#
1812X150PRT	6 dc	1.5	3.0	8.0	40	25	C2	2,3,4,#
1812X160PRT	6 dc	1.6	3.2	8.0	40	25	C2	2,3,4,#
2029L260+	6 dc	2.6	5.2	8.0	40	25	C2	2,3,4,#
030R090+	30 ac,dc	0.9	1.8	4.5	40	25	C2	2,4,#
030R110+	30 ac,dc	1.1	2.2	5.5	40	25	C2	2,4,#
030R135+	30 ac,dc	1.35	2.7	6.75	40	25	C2	2,4,#
030R160+	30 ac,dc	1.6	3.2	8	40	25	C2	2,4,#
030R185+	30 ac,dc	1.85	3.7	9.25	40	25	C2	2,4,#
030R250+	30 ac,dc	2.5	5	12.5	40	25	C2	2,4,#
030R300+	30 ac,dc	3	6	15	40	25	C2	2,4,#
030R400+	30 ac,dc	4	8	20	40	25	C2	2,4,#
030R500+	30 ac,dc	5	10	25	40	25	C2	2,4,#
030R600+	30 ac,dc	6	12	30	40	25	C2	2,4,#
030R700+	30 ac,dc	7	14	35	40	25	C2	2,4,#
030R800+	30 ac,dc	8	16	40	40	25	C2	2,4,#
030R900+	30 ac,dc	9	18	40	40	25	C2	2,4,#
030R0090	30	0.90	1.80	40	40	25	C1	1(121),2,4,#
030R0110	30	1.10	2.20	40	40	25	C1	1(123),2,4,#
030R0135	30	1.35	2.70	40	40	25	C1	1(123),2,4,#
030R0160	30	1.60	3.20	40	40	25	C1	1(123),2,4,#
030R0185	30	1.85	3.70	40	40	25	C1	1(123),2,4,#
030R0250	30	2.50	5.00	40	40	25	C1	1(123),2,4,#
030R0300	30	3.00	6.00	40	40	25	C1	1(122),2,4,#
030R0400	30	4.00	8.00	40	40	25	C1	1(122),2,4,#
030R0500	30	5.00	10.00	40	40	25	C1	1(125),2,4,#
030R0600	30	6.00	12.00	40	40	25	C1	1(125),2,4,#
030R0700	30	7.00	14.00	40	40	25	C1	1(125),2,4,#
030R0800	30	8.00	16.00	40	40	25	C1	1(125),2,4,#
030R0900	30	9.00	18.00	40	40	25	C1	1(125),2,4,#
060R0010	60	0.10	0.20	40	40	25	C1	1(110),2,4,#
060R0017	60	0.17	0.34	40	40	25	C1	1(110),2,4,#
060R0020	60	0.20	0.40	40	40	25	C1	1(110),2,4,#
060R0025	60	0.20	0.50	40	40	25	C1	1(110),2,4,#
060R0030	60	0.30	0.60	40	40	25	C2	1(121),2,4,#
060R0040	60	0.40	0.80	40	40	25	C2	1(121),2,4,#
060R0050	60	0.50	1.00	40	40	25	C2	1(121),2,4,#
060R0065	60	0.65	1.30	40	40	25	C2	1(121),2,4,#
060R0075	60	0.75	1.50	40	40	25	C2	1(121),2,4,#
060R0110	60	1.10	2.20	40	40	25	C1	1(119),2,4,#
060R0135	60	1.35	2.70	40	40	25	C1	1(120),2,4,#
060R0160	60	1.60	3.20	40	40	25	C1	1(120),2,4,#
060R0185	60	1.85	3.70	40	40	25	C1	1(120),2,4,#
060R0250	60	2.50	5.00	40	40	25	C1	1(120),2,4,#
060R0300	60	3.00	6.00	40	40	25	C1	1(120),2,4,#
060R0375	60	3.75	7.00	40	40	25	C1	1(120),2,4,#

Polymeric positive temperature coefficient (PTC) resistors, Models 30R090, -110, -135, -160, -185, -250, -300, -400, -500, -600, -700, -800, -900, 060R010, -017, -020, -025, -030, -040, -050, -065, -075, -090, -110, -135, -160, -185, -250, -300, -375, 2029L030, -050, -075, -100.

Model 030L followed by 090, 110, 135, 160, 185, 250, 300, 400, 600, 700, 800 or 900, may be followed by up to four suffix letters and/or numbers.

(+)May be followed by up to 4 suffix letters and/or numbers.

(++)'X' may be 'L' or 'S' may be followed by up to 4 suffix letters and/or numbers.

(+++)'X' may be 'L' or 'S', may be followed by up to 4 suffix letters and/or numbers, followed by the letter "N".

# Unique conditions of acceptability.

These devices have been evaluated for indoor use only.

The trip state of these devices shall be apparent in the end-use application and a manual intervention is required in order to reset the device.

Marking: Company name and part or model designation on product.

# Underwriters Laboratories Inc.®

**See General Information Preceding These Recognitions**

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.