

2AG > Time Lag > 229/230 Series

Electr	ical Char	I Characteristic Specification by Item									
	Ampere	Voltage			Nominal	Agency Approvals					
Amp Code	Rating (A)	Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Melting I ² t (A ² sec)	(U_L)	7 .	PS E	SP.	SP.	Œ
.250	0.25	250		2.4300	0.339	х			х		х
.350	0.35	250	_	1.3100	0.640	х			х		х
.375	0.375	250	35A@250Vac	1.1685	0.820	х			х		х
.500	0.5	250	10KA@125Vac	0.6935	1.64	х			х		х
.600	0.6	250	10KA@125Vdc	0.4805	1.75	х			х		х
.750	0.75	250	80A@310Vac	0.3430	2.95	х			х		х
.800	0.8	250		0.3060	3.45	х			х		х
001.	1	250		0.2120	5.64	х		х	х		х
1.25	1.25	250		0.1460	16.8	х		х	х		х
01.5	1.5	250	100A@250Vac	0.1077	20.0	х		х	х		х
002.	2	250	10KA@125Vac	0.0698	30.0	х		х	х		х
2.25	2.25	250	10KA@125Vdc	0.0567	39.0	х		х	х		х
02.5	2.5	250	80A@310Vac	0.0502	50.0	х		х	х		х
003.	3	250		0.0383	77.0	х		х	х		х
03.5	3.5	250	100A@250Vac 10KA@125Vac 10KA@125Vdc	0.0312	110.0	x		×	×		x
004.	4	125		0.0258	148.0		х	х		х	х
005.	5	125	400A@125Vac	0.0186	267		x	х		х	х
006.	6	125	400A@125Vdc	0.0141	380		х	x		х	х
007.	7	125		0.0116	464		х	х		х	х

Surge Withstand Specificatons

Peak Withstand Current(Ip): These fuses will withstand 50 repetitions of a double exponential impulse wave having peak currents(Ip) and peak voltages as listed.

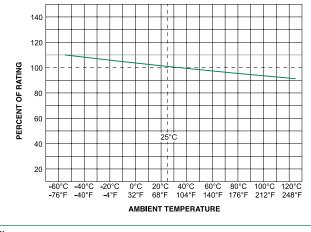
Amp Code	Ampere Rating (A)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec)	10×160 μs 1500V	10×560 µs 800V	10×1000 μs 1000V
.250	0.25		2.4300	0.339	23.0A	16.6A	12.4A
.350	0.35		1.3100	0.640	34.0A	25.8A	19.3A
.375	0.375		1.1685	0.820	40.0A	25.4A	19.0A
.500	0.5	60A@600Vac	0.6935	1.64	60.0A	37.7A	28.2A
.600	0.6	40A@600Vac 7A@600Vac	0.4805	1.75	71.0A	47.2A	35.3A
.750	0.75	2.2A@600Vac	0.3430	2.95	91.0A	65.5A	49.0A
.800	0.8		0.3060	3.45	104.0A	68.9A	51.6A
001.	1		0.2120	5.64	130A	88.6A	66.3A
1.25	1.25*		0.1460	16.8	162.0A	118.1A	100.0A

* 500A peak, 2500V, 2×10 microseconds, 20 repetitions



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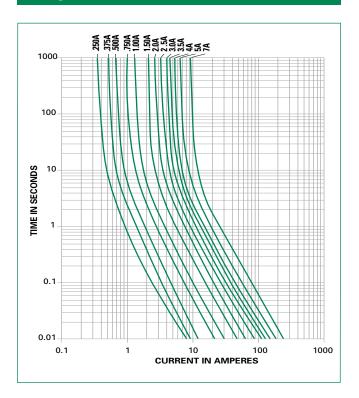
Temperature Re-rating Curve



Note: Rerating depicted in this curve is in addition to the industry practice derating of 25% for continuous operation.

Soldering Parameters - Wave Soldering

Average Time Current Curves



280 side of board 260 240 220 Temperature (°C) - Measured on bottom 200 180 160 140 120 100 80 60 40 20 ٥ţ 10-50-230-60-70-80-90-100-110-20-30-50-60-170-180-200-210-Time (Seconds Preheat Time Cooling Time → ► Dwell Time

Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100°C		
Temperature Maximum:	150°C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260° C Maximum		
Solder Dwell Time:	2-5 seconds		

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

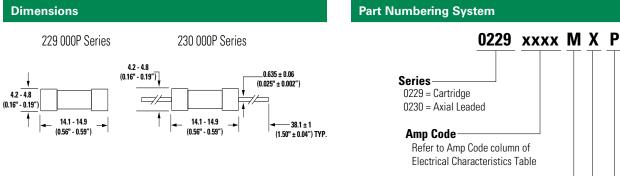


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Product Characteristics

Materials	Body: Glass Cap: Nickel–plated brass Leads: Tin–plated Copper				
Terminal Strength	MIL-STD-202, Method 211, Test Condition A				
Solderability	MIL-STD-202 method 208				
Product Marking	Cap1: Cap2:	Brand logo, current and voltage ratings Series and agency approval marks			

Operating Temperature	-55°C to +125°C
Thermal Shock	MILSTD-202, Method 107, Test Condition B: (5 cycles65°C to 125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MILSTD-202, Method 103, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101, Test Condition B



Quantity Code M = 1000

Packaging Code X = Filler

Lead-free

Recommended Accessories					
Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage	
ĺ	<u>245</u>	Panel Mount Shock-Safe Fuseholder	300	10	
Holder	<u>150</u>	In-Line Fuseholder	350	10	
	<u>286</u>	Panel Mount Flip-Top Shock-Safe Fuseholder	250	10	
Block	<u>254</u>	OMNI-BLOK [®] Fuse Block	400	10	
Clip	<u>111</u>	PC Board Mount Fuse Clip	250	10	

Notes:

Do not use in applications above rating.
Please refer to fuseholder data sheet for specific re-rating information.

3. Please contact factory for applications greater than the max voltage and amperage shown.

Packaging				
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
		229 Series		
Bulk	N/A	5	VX	N/A
Bulk	N/A	5	VXS	N/A
Bulk	N/A	100	HX	N/A



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Packaging Option	Packaging Specification	Quantity	Packaging Code	Taping Width
		229 Series (con		
Bulk	N/A	100	HXS	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXS	N/A
		230 Series		
Bulk	N/A	5	VX	N/A
Bulk	N/A	5	VXS	N/A
Bulk	N/A	100	HX	N/A
Bulk	N/A	100	HXS	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A
Bulk	N/A	1000	MXF1	N/A
Bulk	N/A	1000	MXF16	N/A
Bulk	N/A	1000	MXF16O	N/A
Bulk	N/A	1000	MXF17	N/A
Bulk	N/A	1000	MXF17O	N/A
Bulk	N/A	1000	MXF23	N/A
Bulk	N/A	1000	MXF23O	N/A
Bulk	N/A	1000	MXF32	N/A
Bulk	N/A	1000	MXO	N/A
Bulk	N/A	1000	MXS	N/A
Reel and Tape	EIA 296-E	1500	DRT2	T2=63mm (2.500")
Reel and Tape	EIA 296-E	1500	DRT2S	T2=63mm (2.500")
Reel and Tape	EIA 296-E	1500	DRT4	N/A
Reel and Tape	EIA 296-E	2500	ERT2	T2=63mm (2.500")
Reel and Tape	EIA 296-E	2500	ERT2S	T2=63mm (2.500")
Reel and Tape	EIA 296-E	1000	MRT1E	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DAT1	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DAT10	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DRT1	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DRT1S	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DRT1SS	T1=53mm (2.087")
Reel and Tape	EIA 296-E	1500	DRT3	T3=73mm (2.874")
Reel and Tape	EIA 296-E	1500	DRT3S	T3=73mm (2.874")
Reel and Tape	EIA 296-E	2500	ERT1	T1=53mm (2.087")
Reel and Tape	EIA 296-E	2500	ERT1S	T1=53mm (2.087")
Reel and Tape	EIA 296-E	2500	ERT3	T3=73mm (2.874")

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