RoHS 🗭 HF c 🔊 us 🏵



# **Additional Information**



Resources

Accessories

**Agency Approvals** 

Agency	Agency File Number	Ampere Range
c <b>SL</b> us	E10480	10A - 20A
۹.	29862	10A - 20A

#### **Electrical Characteristics for Series**

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	10A – 20A	4 Hours, Minimum
350%	10A – 20A	5 Seconds, Maximum

## **Description**

The 501A series AECQ-Compliant fuses and Halogen free fuse series are specifically tested to cater to secondary circuit protection needs of compact auto electronics application. The general design ensures excellent temperature stability and performance reliability. The high I2t values which are typical in the Littelfuse Ceramic Fuse family, ensure high inrush current withstanding capability.

# **Features & Benefits**

- Operating Temperature from -55°C to +150°C
- Meets Littelfuse's automotive qualifications\*
- 100% Lead-free, RoHS compliant and Halogen-free
- Suitable for both leaded and lead-free reflow/wave soldering
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- \* Largely based on Littelfuse internal AEC-Q200 test plan

## **Applications**

- Li-ion Battery
- LED Head-Lights
- Automotive Navigation System
- TFT Display

- Battery Management System (BMS)
- Clusters

#### **Electrical Specifications by Item**

Ampere	Amp	Max. Voltage	Interrupting Rating	Nominal	Nominal	Nominal Voltage	Nominal Power	Agency Approvals	
Rating (A)	Code	Rating (V)	(DC) <sup>1</sup>	Resistance (Ohms) <sup>2</sup>			Dissipation at Rated Current (W)	c <b>RU</b> us	۹.
10	010.	32	150A @ 32VDC	0.00362	10.385	0.04407	0.4407	х	х
12	012.	32		0.00311	20.341	0.04927	0.5912	х	х
15	015.	32		0.00250	39.700	0.04843	0.7265	х	Х
20	020.	32		0.00194	86.360	0.05888	1.1776	х	х

Notes:

DC Interrupting Rating tested at rated voltage with time constant <0.5msec</li>
Nominal Resistance measured with <10% rated current.</li>

3. Nominal Melting I<sup>2</sup>t measured at 1 msec. opening time. For other I<sup>2</sup>t data refer to chart. 4. Nominal Voltage Drop measured at rated current after temperature has stabilized and with fuse mounted on board with 3oz Cu trace.

Devices designed to carry rated current for four hours minimum. It is recommended that devices be operated continuously at no more than 80% rated current. See "Temperature Re-rating Curve" for additional re-rating information

Devices designed to be mounted with marking code facing up.



# **501A Series** High Current 1206 Fast-Acting Fuse



### **Temperature Re-rating Curve**

Note: 1. Re-rating depicted in this curve is in addition to the standard re-rating of 20% for continuous operation.

Example: For continuous operation at 75 degrees celsius, the fuse should be rerated as follows:  $I = (0.80)(0.85)I_N = (0.68)I_N$ 



Reflow Condition			Pb – free assembly		
	- Temperature Min (T <sub>s(min)</sub> )		150°C		
Pre Heat	- Temperature Max (T <sub>s(max)</sub> )		200°C		
	-Time (Min to Max) (t <sub>s</sub> )		60 – 180 seconds		
Average Ramp-up Rate (Liquidus Temp (T <sub>L</sub> ) to peak)			3°C/second max.		
T <sub>S(max)</sub> to T <sub>L</sub> - Ramp-up Rate			5°C/second max.		
Reflow	- Temperature (T <sub>L</sub> ) (Liquidus)		217°C		
	- Temperature (t <sub>L</sub> )		60 – 150 seconds		
Peak Temperature (T <sub>P</sub> )			260+0/-5 °C		
Time within 5°C of actual peak Temperature (t <sub>p</sub> )			10 – 30 seconds		
Ramp-down Rate			6°C/second max.		
Time 25°C to peak Temperature (T <sub>P</sub> )			8 minutes max.		
Do not exceed		260°C			
Wave Soldering		260°C, 10 seconds max.			

#### **Soldering Parameters**



#### **Average Time Current Curves**

#### Fuse Datasheet

# **501A Series** High Current <u>1206 Fast-Acting Fuse</u>

#### **Product Characteristics**

MaterialsTerminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Lead-free GlassMoisture Sensitivity LevelIPC/JEDEC J-STD-020, Level 1SolderabilityIPC/ECA/JEDEC J-STD-002, Condition CHumidity TestMILSTD-202, Method 103, C onditions DResistance to Solder HeatMILSTD-202, Method 210, Condition BMoisture ResistanceMILSTD-202, Method 107, Condition BMechanical ShockMILSTD-202, Method 213, Condition AVibrationMILSTD-202, Method 201, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108, with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 100hrsOperational LifeMILSTD-202, Method 108, rest Condition DResistance to SolventsMILSTD-202, Method 108, rest Condition DMilesTD-202, Method 204MilesTD-202, Method 103, 85°C/85% RH with 10% operating power for 100hrsOperational LifeMILSTD-202, Method 108, rest Condition DResistance to SolventsMILSTD-202, Method 213, rest Condition DMilesTD-202, Method 204MilesTD-202, Method 204MilesTD-202, Method 204MilesTD-202, Method 204Resistance to SolventsMilesTD-202, Method 204MilesTD-202, Method 204 </th <th></th> <th>Body: Advanced Ceramic</th>		Body: Advanced Ceramic		
Moisture Sensitivity LevelIPC/JEDEC J-STD-020, Level 1SolderabilityIPC/ECA/JEDEC J-STD-002, Condition CHumidity TestMIL-STD-202, Method 103, C onditions DResistance to Solder HeatMIL-STD-202, Method 210, Condition BMoisture ResistanceMIL-STD-202, Method 106Thermal ShockMIL-STD-202, Method 213, Condition AVibrationMIL-STD-202, Method 213, Condition AVibrationMIL-STD-202, Method 201Vibration, High FrequencyMIL-STD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMIL-STD-202, Method 103, 85°C/85% RH with 200 Ap-104, Test Conditions B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 213, Test Condition DHigh Frequency VibrationMIL-STD-202, Method 213, Test Condition DResistance to Soldering High Frequency VibrationMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 213, Test Condition DResistance to Soldering HeatMIL-STD-202, Method 213, Test Condition BSolderabilityJESD22-B102E Method 1Generational LifeMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Generational Strength	Materials	<b>0</b> · · ·		
SolderabilityIPC/ECA/JEDEC J-STD-002, Condition CHumidity TestMILSTD-202, Method 103, C onditions DResistance to Solder HeatMILSTD-202, Method 210, Condition BMoisture ResistanceMILSTD-202, Method 106Thermal ShockMILSTD-202, Method 107, Condition BMechanical ShockMILSTD-202, Method 213, Condition AVibrationMILSTD-202, Method 213, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 213, condition DResistance to SolventsMILSTD-202, Method 213, Test Condition DMechanical ShockMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 213, Test Condition CMilesTD-202, Method 213, Test Condition DResistance to SolventsMILSTD-202, Method 213, Test Condition DMechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1SolderabilityJESD22-B102E Method 1Ferminal Strength for SMDAEC 0200-005		Element Cover Coating: Lead-free Glass		
Humidity TestMILSTD-202, Method 103, C onditions DResistance to Solder HeatMILSTD-202, Method 210, Condition BMoisture ResistanceMILSTD-202, Method 106Thermal ShockMILSTD-202, Method 107, Condition BMechanical ShockMILSTD-202, Method 213, Condition AVibrationMILSTD-202, Method 201Vibration, High FrequencyMILSTD-202, Method 204, Condition DIPC/ECA/JEDEC J-STD-002, Condition DIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108 with exemptionsJESD22 Method JA-104, Test Conditions B and NMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 213, Test Condition CMiles TD-202, Method 213, Test Condition DResistance to SolventsMILSTD-202, Method 204Resistance to Soldering High Frequency VibrationMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 204SolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-005	Moisture Sensitivity Level	IPC/JEDEC J-STD-020, Level 1		
Humidity lestonditions DResistance to Solder HeatMILSTD-202, Method 210, Condition BMoisture ResistanceMILSTD-202, Method 106Thermal ShockMILSTD-202, Method 107, Condition AMechanical ShockMILSTD-202, Method 213, Condition AVibrationMILSTD-202, Method 201Vibration, High FrequencyMILSTD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108, with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 213, Test Condition BSolderabilityJESD22. Method 213, Test Condition BSolderabilityJESD22, Method 213, Test Condition CFreminal Strength for SMDAEC Q200-006Board FlexAEC Q200-005	Solderability	IPC/ECA/JEDEC J-STD-002, Condition C		
Moisture ResistanceMILSTD-202, Method 106Thermal ShockMILSTD-202, Method 213, Condition AMechanical ShockMILSTD-202, Method 201VibrationMILSTD-202, Method 201Vibration, High FrequencyMILSTD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108, with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85%, RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, rest Condition DResistance to SolventsMILSTD-202, Method 213, rest Condition CHigh Frequency VibrationMILSTD-202, Method 213, rest Condition DResistance to Soldering Resistance to SolderingMILSTD-202, Method 213, rest Condition CSolderabilityJESD22-8102E Method 1Freminal Strength for SMDJESD22-B102E Method 1Goard FlexAEC Q200-005	Humidity Test			
Thermal ShockMILSTD-202, Method 107, Condition BMechanical ShockMILSTD-202, Method 213, Condition AVibrationMILSTD-202, Method 201Vibration, High FrequencyMILSTD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108, with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DMilestD-202, Method 213, Test Condition DMILSTD-202, Method 213, Test Condition DResistance to SolventsMILSTD-202, Method 213, Test Condition CMilestD-202, Method 213, Test Condition BMilestD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 213, Test Condition BSolderabilityJESD22-B102E Method 1Ferminal Strength for SMDAEC Q200-005	Resistance to Solder Heat	MIL-STD-202, Method 210, Condition B		
Mechanical ShockMilleSTD-202, Method 213, Condition AVibrationMilleSTD-202, Method 201Vibration, High FrequencyMilleSTD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMilleSTD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Condition DBiased HumidityMilleSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMilleSTD-202, Method 108, Test Condition DMechanical ShockMilleSTD-202, Method 213, Test Condition DMechanical ShockMilleSTD-202, Method 213, Test Condition DResistance to SolventsMilleSTD-202, Method 213, Test Condition CMiles TD-202, Method 213, Test Condition DResistance to SolventsMilleSTD-202, Method 213, Test Condition DMiles TD-202, Method 213, Test Condition CMiles TD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1SolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-005	Moisture Resistance	MIL-STD-202, Method 106		
VibrationMIL-STD-202, Method 201Vibration, High FrequencyMIL-STD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMIL-STD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 213, Test Condition BSolderabilityJESD22-SI02E Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Ferminal Strength for SMDAEC Q200-005	Thermal Shock	MIL-STD-202, Method 107, Condition B		
VibrationHigh FrequencyMIL-STD-202, Method 204, Condition DDissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMIL-STD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Condition B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 213, Test Condition CMigh Frequency VibrationMIL-STD-202, Method 213, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC Q200-005	Mechanical Shock	MIL-STD-202, Method 213, Condition A		
Dissolution of MetallizationIPC/ECA/JEDEC J-STD-002, Condition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 215, Test Condition DMechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC Q200-005	Vibration	MIL-STD-202, Method 201		
Dissolution of MetallizationCondition DTerminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 108, Test Condition DMechanical ShockMILSTD-202, Method 215, Test Condition CHigh Frequency VibrationMILSTD-202, Method 213, Test Condition CResistance to Soldering HeatMILSTD-202, Method 204SolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC 0200-005	Vibration, High Frequency	MIL-STD-202, Method 204, Condition D		
Terminal StrengthIEC 60127-4High Temperature StorageMILSTD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 215Mechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition RSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-005	Dissolution of Metallization	,		
High Temperature StorageMIL-STD-202, Method 108 with exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 215Mechanical ShockMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-005				
High Temperature Storagewith exemptionsThermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 215Mechanical ShockMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC Q200-005	Terminal Strength			
Thermal Shock TestJESD22 Method JA-104, Test Conditions B and NBiased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 215Mechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC Q200-005	High Temperature Storage			
Thermal Shock TestTest Conditions B and NBiased HumidityMIL-STD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMIL-STD-202, Method 108, Test Condition DResistance to SolventsMIL-STD-202, Method 215Mechanical ShockMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-005				
Biased HumidityMILSTD-202, Method 103, 85°C/85% RH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, rest Condition DResistance to SolventsMILSTD-202, Method 215Mechanical ShockMILSTD-202, Method 213, rest Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, rest Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-005	Thermal Shock Test			
Biased HumidityRH with 10% operating power for 1000hrsOperational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 215Mechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMDAEC Q200-005Board FlexAEC Q200-005				
Operational LifeMILSTD-202, Method 108, Test Condition DResistance to SolventsMILSTD-202, Method 215Mechanical ShockMILSTD-202, Method 213, Test Condition CHigh Frequency VibrationMILSTD-202, Method 204Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-005	Biased Humidity			
Operational LifeTest Condition DResistance to SolventsMIL-STD-202, Method 215Mechanical ShockMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-005				
Resistance to SolventsMILsTD-202, Method 215Mechanical ShockMILsTD-202, Method 213, Test Condition CHigh Frequency VibrationMILsTD-202, Method 204Resistance to Soldering HeatMILsTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-005	Operational Life			
Mechanical ShockMIL-STD-202, Method 213, Test Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC 0200-006	Desistance to Columnts			
Mechanical ShockTest Condition CHigh Frequency VibrationMIL-STD-202, Method 204Resistance to Soldering HeatMIL-STD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-006	Resistance to Solvents			
Resistance to Soldering HeatMILSTD-202, Method 210, Test Condition BSolderabilityJESD22-B102E Method 1Terminal Strength for SMD Board FlexAEC Q200-006	Mechanical Shock			
Heat Test Condition B   Solderability JESD22-B102E Method 1   Terminal Strength for SMD AEC Q200-006   Board Flex AEC Q200-005	High Frequency Vibration	MIL-STD-202, Method 204		
Terminal Strength for SMD AEC Q200-006   Board Flex AEC Q200-005				
Board Flex AEC Q200-005	Solderability	JESD22-B102E Method 1		
	Terminal Strength for SMD	AEC Q200-006		
Electrical Characterization Three Temperature Electrical	Board Flex	AEC Q200-005		
	Electrical Characterization	Three Temperature Electrical		

#### **Dimensions** (mm)





#### **Part Marking System**

# 

**Part Numbering System** 

Amp Code	Marking Code
010.	10
012.	12
015.	15
020.	20

#### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code
8mm Tape and Reel	EIA-481, IEC 60286, Part 3	3000	WR

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.

