



# 682 Miniature cartridge Fuse



**Main Characteristics**  
Miniature cartridge fuse; Fast-Acting(F)

**Standard**

UL 248

**Materials**

Tube: Ceramic Tube

End Caps: Silver plated copper

**Operating Temperature**

-55°C to +125°C

**Storage Conditions**

+10°C to +60°C

Relative humidity: ≤75% yearly average

Without dew, maximum 30 days at 95%

**Vibration Resistance**

120 cycles in 1 direction at 1 min. each

10-55Hz, 3 directions(X, Y, Z) in total

According to MIL-STD-202 Method 201A

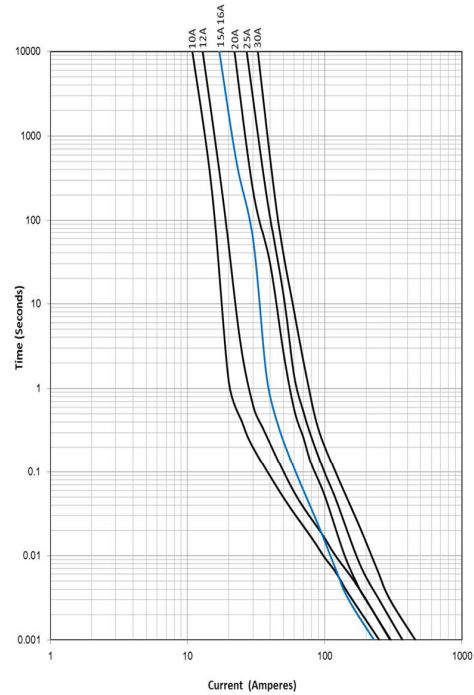
**Soldering Parameters**

260°C. ≤5 sec (Wave Soldering)

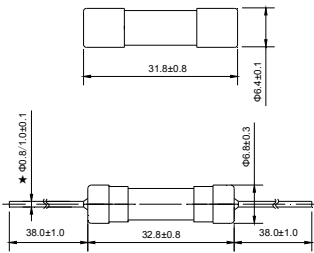
350°C. ≤3 sec (Hand Soldering)

**Soldering Peak:**

260°C. 10 sec. (IEC 60068-20)



Dimensions (unit: mm)



★ 10~12A : Φ 0.8mm

15~30A : Φ 1.0mm

Time vs Current Characteristics: UL 248

Rated Current	150%	200%	300%
10A~30A	<30min	<5min	<10s



## Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage	Breaking Capacity	Typical Cold Resistance (mΩ)	Typical Melting I <sup>2</sup> T (A <sup>2</sup> s)	Approval	
						cURus	TUV
2100	10.00A	500VAC 500VDC	30KA@500VAC 20KA@500VDC	17.1	100	●	●
2120	12.00A			12.3	140	●	●
2150	15.00A			8.0	66	●	●
2160	16.00A			8.0	62	●	●
2200	20.00A			5.5	120	●	●
2250	25.00A			4.6	200	●	●
2300	30.00A			3.7	270	●	●

**Note:**

(1) DC cold resistance are measured at <10% of rated current in ambient temperature of 25°C.

(2) Typical pre-arcing I<sup>2</sup>t are measured at 10In current.

## Ordering Information

Series	Amp Code	Supplementary Code	Qty
682			



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National High-tech Enterprise  
SC 32C National Technical  
Committee Member of China  
Intertek ISO 9001 Certified Company  
Intertek ISO 14001 Certified Company  
Intertek QC 080000 Certified Company  
NQA IATF 16949 Certified Company

国家高新技术企业  
SC 32C 国内专家组成员单位  
ISO 9001 认证企业  
ISO 14001 认证企业  
QC 080000 认证企业  
IATF 16949 认证体系