

APPROVAL SHEET

MODEL NO.: 135R500SUG

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP

DATE

MANUFACTURER:

The Fourth Industrial Zone, Luokeng Village, Xiaotie District, Xiaojinkou Town, Huizhou City, Guangdong Province, China

Tel: 0752-7213069/7213070

Fax: 0752-7213065

Submitted by:

Approved by:

Date:

Performance Specification

Model	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{i min.} (Ω)	R _{i max.} (Ω)	R _{1 max} (Ω)
135R500SUG	0.50	1.0	135	7.5	1.6	2.50	5.0	0.70	1.55	1.9

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

R_{i min/max} = Minimum/Maximum device resistance prior to tripping at 25°C.

R_{1 max} = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

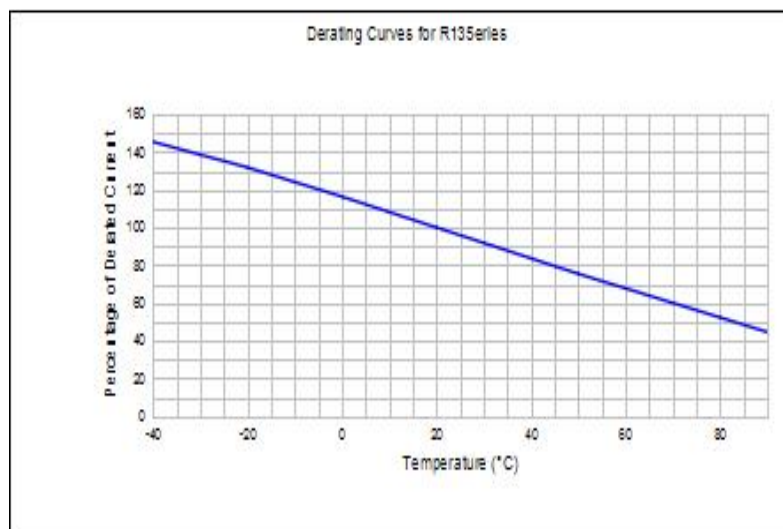
Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
Resistance to solvent	MIL-STD-202,Method 215	No change
Vibration	MIL-STD-202,Method 201	No change
Ambient operating conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the tripped state is 125 °C		

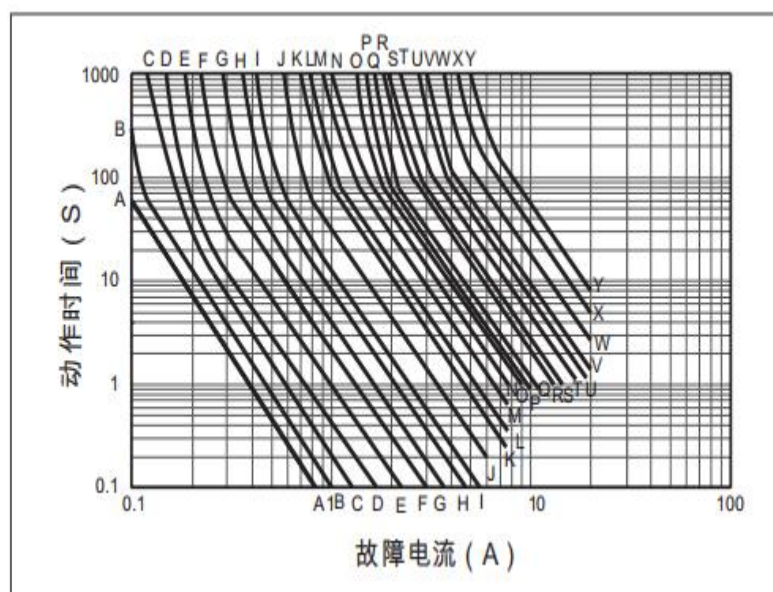
Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
UL	pending		2002/95/EC
TUV	pending		EN14582

Thermal Derating Curve



Average Time-Current Curve

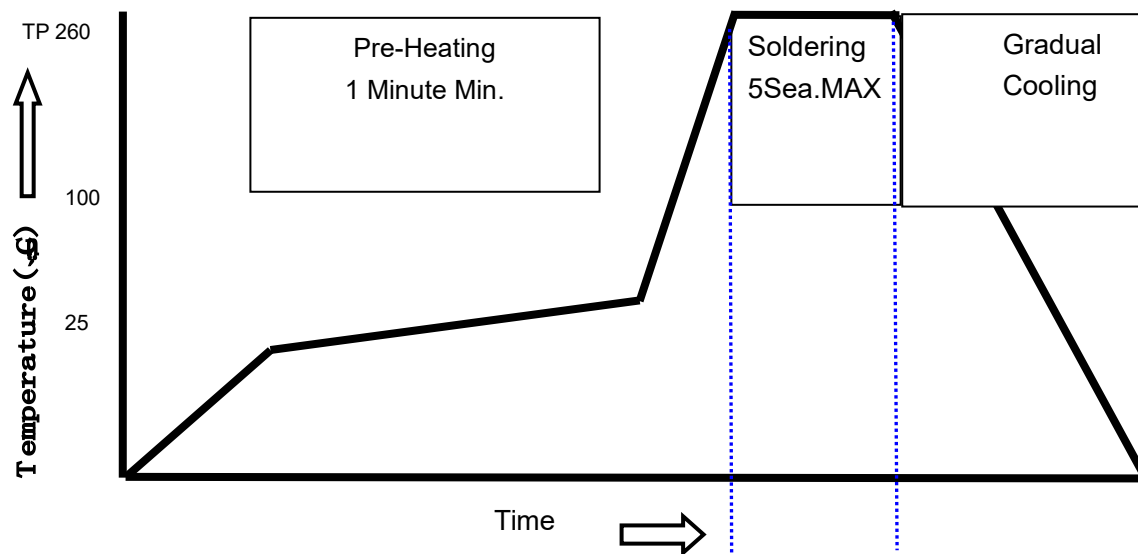


A=135R050	J=135R400	S=135R1350
B=135R060	K=135R500	T=135R1600
C=135R080	L=135R550	U=135R1850
D=135R100	M=135R650	V=135R2500
E=135R120	N=135R750	W=135R2500
F=135R160	O=135R900	X=135R3000
G=135R200	P=135R1000	Y=135R3500
H=135R250	Q=135R1100	
I=135R300	R=135R1250	

Ihold Versus Temperature

型號	最高環境溫度和保持電流								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
135R500SUG	0.78	0.68	0.60	0.50	0.41	0.36	0.32	0.27	0.20

Soldering Parameters

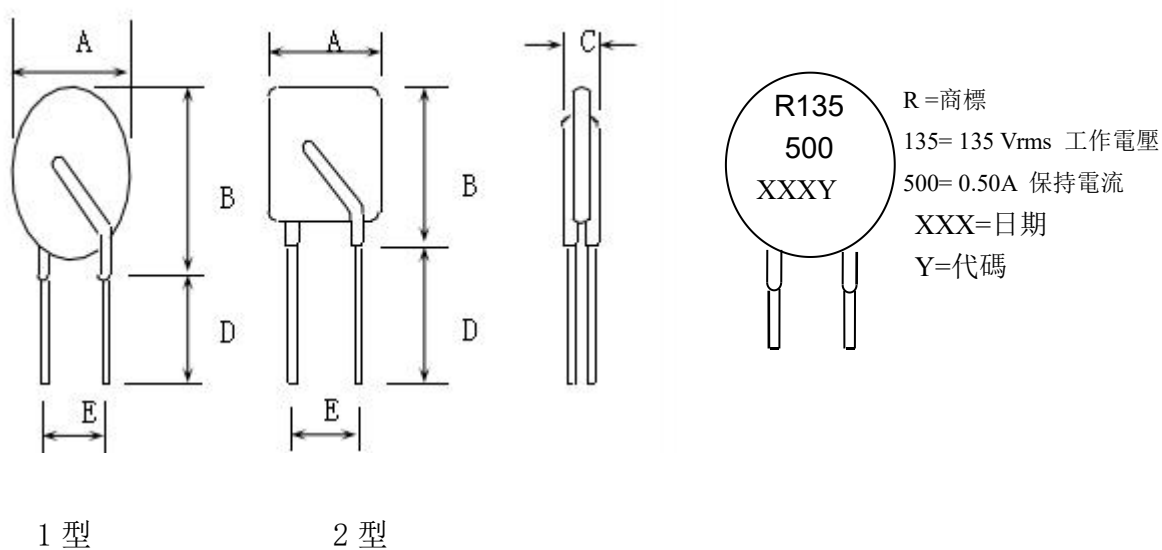


WAVE SOLDERING INFORMATION

Pre-Heating Zone	Max. ramping rate should not exceed 4°C/Sec.
Soldering Zone	Max. solder temperature should not exceed 260°C
Cooling Zone	Cooling by natural convection in air.

© Specifications are subject to change without notice.

Physical Dimensions(mm.)



型號	A	B	C	D	E	Lead	
	Max.	Max.	Max.	Min.	Typ.	Style	直径(Φ)
135R500SUG	8.8	14.5	3.8	7.6	5.1	2	0.8

PHYSICAL SPECIFICATIONS :

Materials : Leads

135R500 : Tin-plated copper, 0.52mm² (20AWG), Φ0.80mm(0.032 in).

Lead Solderability : MIL-STD-202, Method 208E

Packaging Quantity

135	500	U	Model	Reel Q'ty	Bag Q'ty
Radial type	Hold	U= Bulk	135R500	-	1000
135V	Current(A): 3.50A	packaged			

Tape & Reel packaging per EIA468-B standard.