

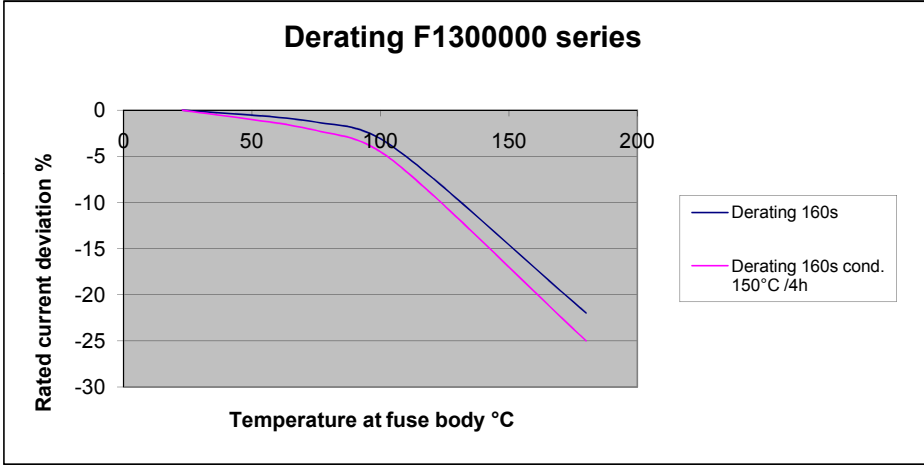


Properties	Applications
<ul style="list-style-type: none"> <li>* Lead free, RoHS conformity</li> <li>* Halogen free</li> <li>* Enhanced breaking capacity up to 277V 20A AC</li> <li>* High heat resistance up to sustained 200°C</li> <li>* Current inrush pulse stability (EN 61000-4-5) up to 2kV</li> <li>* High blowing time accuracy</li> <li>* Bulk, taped</li> </ul>	<ul style="list-style-type: none"> <li>* Low power chargers</li> <li>* Direct R/C component protection in R/C voltage dividing switching circuits</li> <li>* MOV protection in transient filters</li> <li>* TVS diode protection</li> </ul>

**No-flame by EN60335-1**



Article no.	Irat A	Voltage drop		Power dissipation 1,66 x Irat max. (W)	Melting Integral 10 x Irat nominal A²s	Cold resistance		Breaking capacity
		1,0 x Irat max. (mV)	0,14			0,1 x Irat nominal (mOhm)	6650	
F1300060	0,060	500	0,14	0,030	6650	250VAC 20A		
F1300080	0,080	450	0,13	0,035	3800			
F1300100	0,100	350	0,12	0,060	2500	cos phi = 1,0		



Increased derating has to be taken into account if operational temperatures above 100°C are present next to the fuse!

Derating was calculated by definition at 160s blowing time in the overload I-t-range.

Operational temperatures above 150°C can force an increased ageing.

**Permissible continuous operating current is ≤ 100 % rated current at ambient temperature of 23°C (73.4°F).**

**Limits for Pre-arcing Time**

Rated Current	1.66 x Irat	2.05 x Irat	2,5 x Irat	10 x Irat
60 ... 100 mA	> 600s	< 300s	< 45s	>70ms

**Soldering process parameters**

Wave soldering	
Preheat temperature:	100°C - 160°C
Preheat time:	60 - 180s
Solder temperature:	265°C max.
Dwell time:	5 - 10s

**Product characteristics**

Base / Cap:	Polyamid PA 6 UL94-V0	Operating temperature:	-40°C - 200°C
Lead:	Copper tin plated; pull strength 10N max.	Vibration resistance:	acc. to IEC 60068-2-6
Solderability:	245°C < 3s	Stock conditions:	+10°C - 60°C RH <75%
Soldering heat resistance:	260°C 10s (wave) acc. to IEC 60068-2-20 350°C 5s (soldering iron)	Glow wire test:	acc. to IEC 60335-1 requirements IEC 60695-2-12, IEC 60695-2-13

# Type F130 0000 Radial Lead Protector

custom design

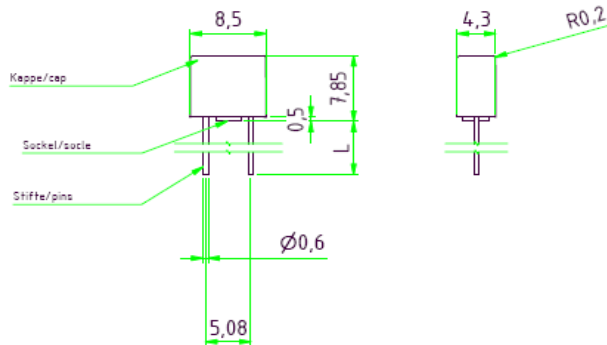
250V 20A

Time delay



# INTER CONTROL

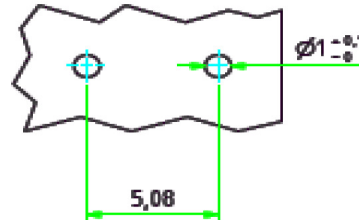
## Dimensions and recommended PCB layout



Irat / A	Track sizes (crosssection)
0,06 - 0,1	min. 0,1mm <sup>2</sup>

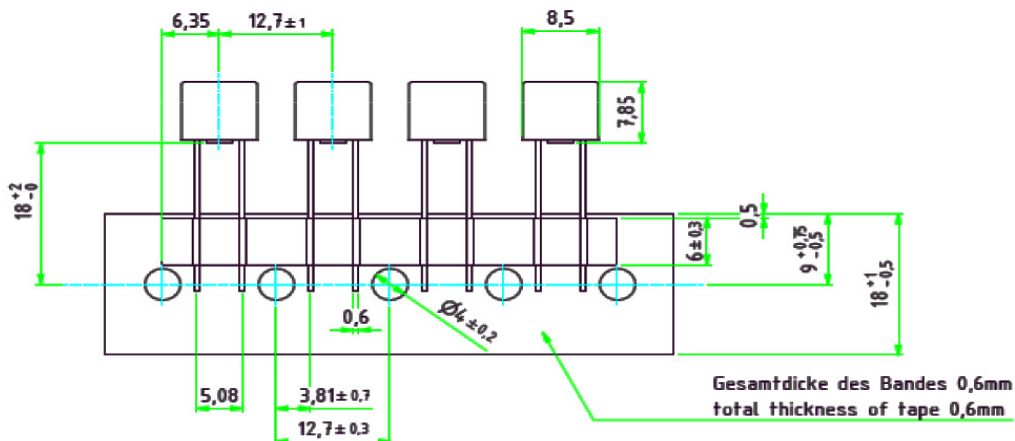
weight: < 0,6g

reommended drill layout for PCB



## Packaging / Dimensions / Quantities per package unit

In bulk:	1000 pcs per box
Pin length "L"	4,3 mm (variable 2,5 ... 4,3mm)
On tape	1400 pcs per Ammo pack EIA 468-A, IEC 286-2
Pin length "L"	20,00 mm



## Ordering information

**F13Y NNNN**

Y = 1: Ammo Pack  
2: Bulk

NNNN = Rated current regarding article table

Note:

The parts are equipped with a production date code including the year: D = 2013, E = 2014, F = 2015 etc. and the calendar week.

Irat	amperecode
60mA	0060
80mA	0080
100mA	0100

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