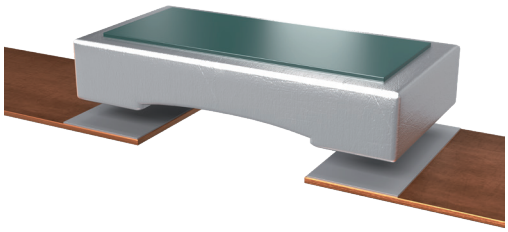
ISABELLENHÜTTE

PRELIMINARY VERSION

FMH-K-R000 (0603)

ISA-PLAN® HIGH POWER JUMPER



FEATURES

- 0.135 W power rating at T_K=125 °C
- Constant current up to 26 A
- Standard pad size (0603)
- Mounting: Reflow-, and IR-soldering
- AEC-Q200 qualification in process
- Full copper construction and tinned terminals

RoHS

APPLICATIONS

- Jumper
- Multiple usage of PCB layouts

Technical data

Resistance values	**mOhm**	<0.2
Temperature coefficient (20-60 °C)	**ppm/K**	3200 ± 500
Applicable temperature range	**°C**	-65 to +170
Power rating $P_{125°C}$	**W**	0.135
Inductance	**nH**	<1
Current (continuous)	**A**	26

Ordering code

FMH - K - R000

- R000 ..... Resistance value [Ohm] / „R" represents decimal point
- K ..... Resistance material / K=copper
- FMH ..... Type

Information

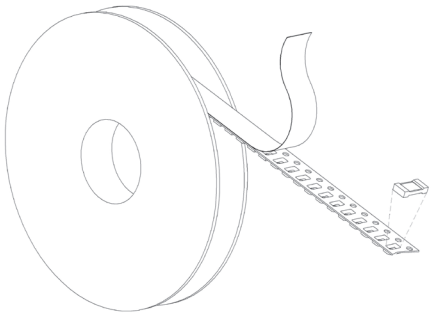
B-samples	on request
AEC-Q200 qualification	April 2026
SOP	December 2026

Recommended solder profile

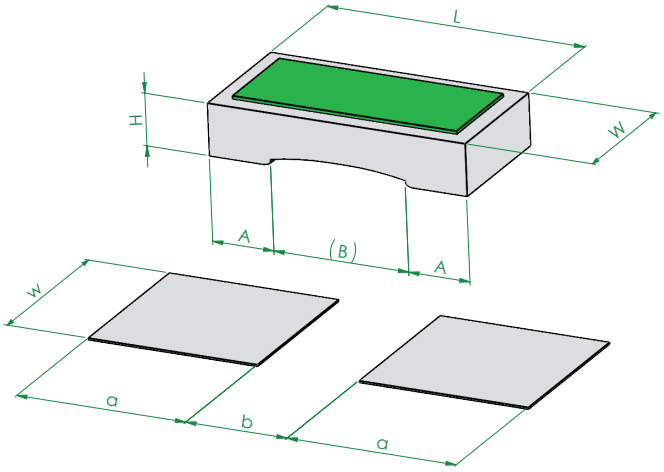
Reflow- and IR-soldering				
Temperature	**°C**	260	255	217
Time	**sec**	peak	40	90

Tape and reel information

Specification		DIN EN 60286-3
Tape width (paper)	**mm**	8
Reel size	**inch**	13
Parts per reel	**pcs**	15000



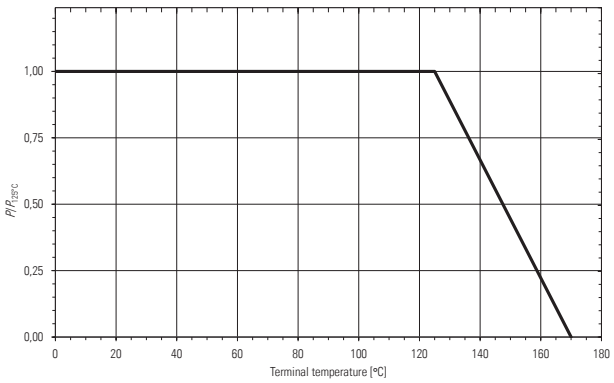
Mechanical dimensions and pcb-layout proposal (Reflow-soldering) [mm]

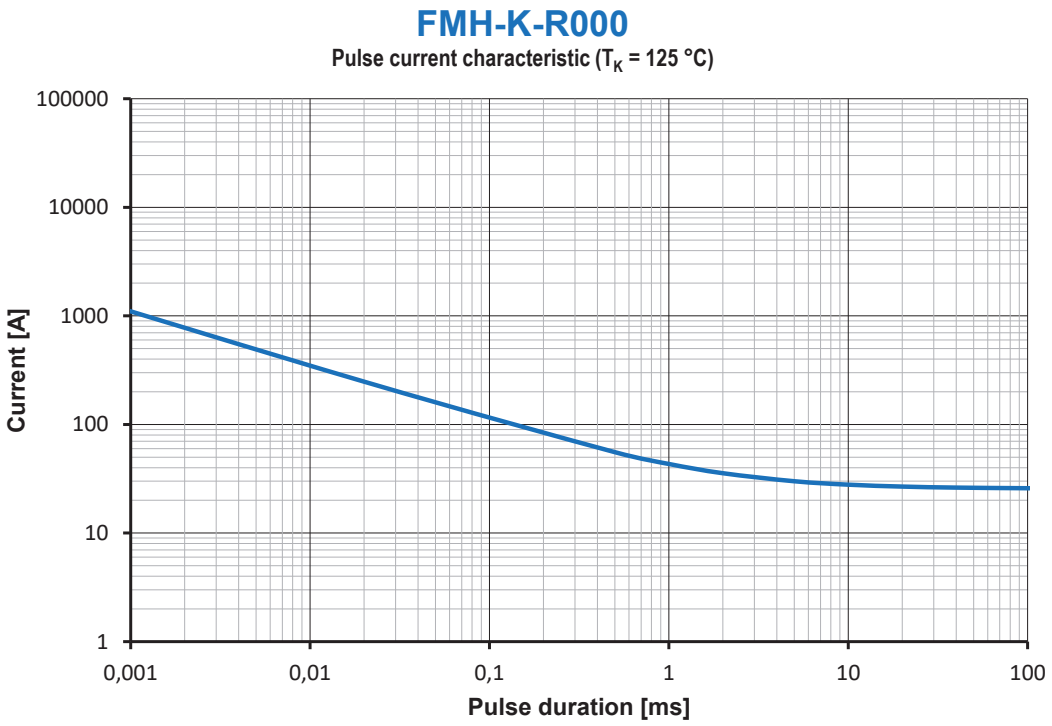


type:	L	W	H	A
FMH	1.52 ±0.2	0.76 ±0.2	0.3 ±0.15	0.36 ±0.1

solder pad type:	a	b	w
FMH	1.0	0.6	0.96

Power derating curve





Specification

Parameters	Test conditions	Specified values
Temperature Cycling	2000 cycles (-55 °C to +150 °C)	±20% ±0.2 mΩ
Resistance to Soldering Heat	3x reflow soldering (conditon K) time above 217 °C, 60s-150s	±20% ±0.2 mΩ
Operational Life	2000 h, at nominal load	±20% ±0.2 mΩ
High Temperature Exposure	2000 h / 170 °C	±20% ±0.2 mΩ
Bias Humidity	+85 °C, 85 r.F., 1000 h	±10%

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