

## Kapton insulator washers

- very low thermal resistance
- optimised heat conductivity
- best mechanical characteristics
- polyimide-carrier foil with silicone-free phase changing thermal conductive layer completely coated on both sides
- clean processing, no abrasion of the coating
- stacked foils do not stick together
- good resistance against cleaning agents
- no cold flow
- low pressure force necessary, thus particularly applicable for spring-fixing of semiconductors
- cuttings and special versions according to customer's requirements

<b>art. no.</b> <b>KAP 1 P</b> suitable for pre-cut parts (plate)	<b>art. no.</b> <b>KAP 247 O</b> TO 248/ TO 218/ TO 247	<b>art. no.</b> <b>KAP 218 O</b> TO 218	<b>art. no.</b> <b>KAP 220 O</b> TO 220	<b>art. no.</b> <b>KAP 220 K</b> TO 220
<b>art. no.</b> <b>KAP 220 G</b> TO 220	<b>art. no.</b> <b>KAP 218</b> TO 248/ TO 218/ TO 247	<b>art. no.</b> <b>KAP 3 K</b> TO 3	<b>art. no.</b> <b>KAP 3 G</b> TO 3	

<b>material</b>	polyimide; polyimide-carrier foil with silicone-free phase changing thermal conductive layer completely coated on both sides
<b>material thickness</b>	0,077
<b>thermal conductivity</b>	0.45 W/mK (substrate)
<b>insulation resistance</b>	10 <sup>14</sup> Ω
<b>thermal resistance</b>	0.15 K/W (at 1 inch <sup>2</sup> ; = 6.45 cm <sup>2</sup> ; = TO 3 (KAP 3))
<b>temperature range</b>	-40 °C ... +150 °C
<b>phase change temperature</b>	52 °C
<b>extensibility</b>	30 %
<b>breakdown voltage</b>	7.8 kV
<b>flammability</b>	UL 94 V-0

The thermal details refer to an area of 1 inch<sup>2</sup> (6.45 cm<sup>2</sup>).

Profiles for PCB components  
Heatsinks for PCB  
Profiles for PCB mounting  
Heatsinks for transistors

→ A ?  
→ A ? - ?  
→ A ? - ?  
→ C ? - ?

Finger-shaped heatsinks  
Distance sleeves  
Spacers  
GEL thermal conductive foil

→ C ? - ?  
→ E ? - ?  
→ E ? - ?  
→ E ?

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