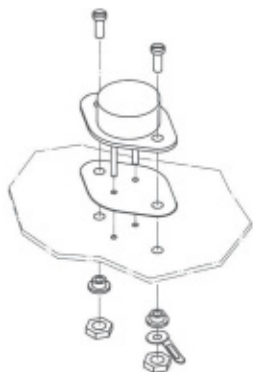
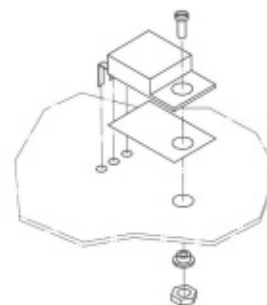


Mounting kits for insulation of power transistors

MST 3
MSTS 3



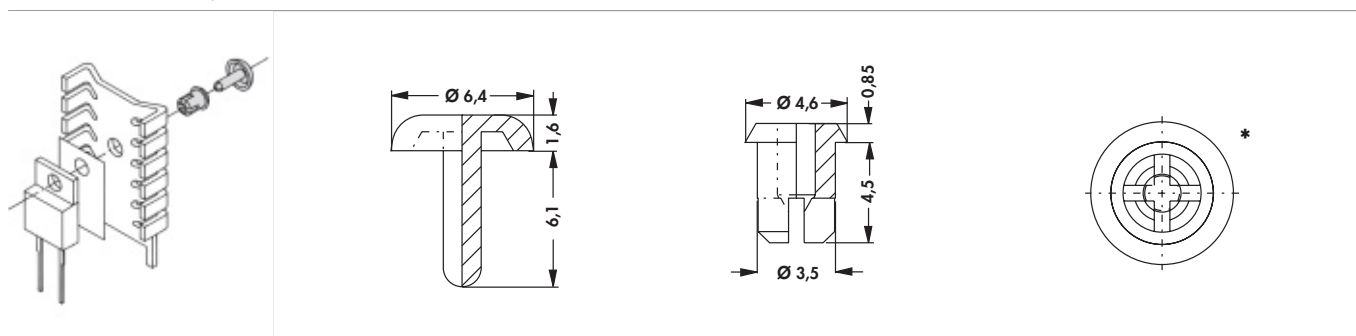
MST 220
MSTS 220



art. no.	for transistor	version	contents of delivery
MST 3	TO 3	with mica wafer GS 3	1 mica wafer, 2 insulator sleeves, 1 tin-plated solder lug, 2 cheese head screws, nickel-plated, 2 screw nuts M3 nickel-plated
MSTS 3	TO 3	with silicone wafer WS 3	1 silicone wafer, 2 insulator sleeves, 1 tin-plated solder lug, 2 cheese head screws, nickel-plated, 2 screw nuts M3 nickel-plated
MST 220	TO 220	with mica wafer GS 220	1 mica wafer, 1 tin-plated solder lug, 1 cheese head screw, nickel-plated, 1 screw nut M3 nickel-plated
MSTS 220	TO 220	with silicone wafer WS 220	1 silicone wafer, 1 insulator sleeve, 1 tin-plated solder lug, 1 cheese head screw, nickel-plated, 1 screw nut M3 nickel-plated

Snap rivet for quick fastening of TO 220

- detachable plastic snap rivet for quick fastening of transistors onto heatsinks and cooling plates (e.g. FK 212-CB, FK 216-CB, FK 222-220, FK 232, FK 233, FK 235-L 1)
- suitable for material thickness: 1 – 1.5 mm
- suitable for hole diameter: 3.5 – 4 mm
- * = bottom view, pin not inserted

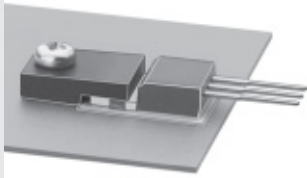
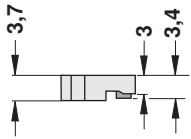
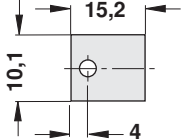
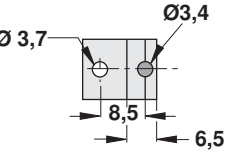
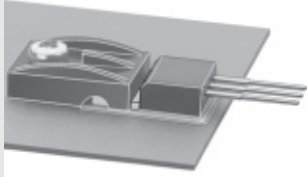
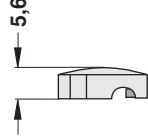
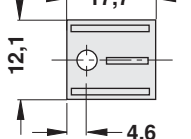
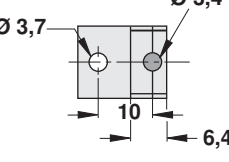
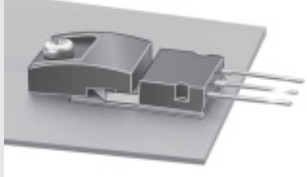
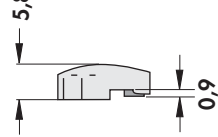
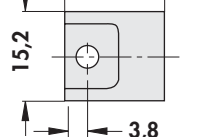
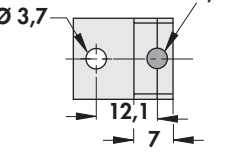
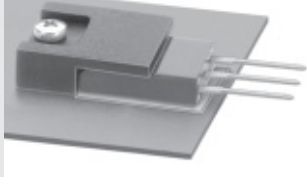
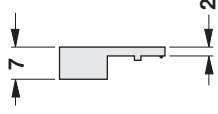
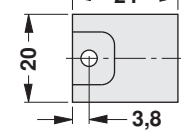
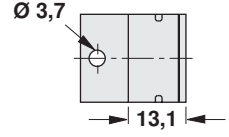


art. no.	for transistor
EPN 1	TO 220
material:	polysulphone, GF reinforced
temperature range:	-70 °C ... +180 ° (5 sec. +260 °C)
class of flammability:	UL 94 V-0

Insulating clamping parts for power transistors

Plastic insulating clamping parts for mounting transistors in cases TO 220, TO 218 and TO 247 for enhanced dielectric strengths

- electrically insulating assembly of the transistor by means of a plastic clamping part
- pin reaching into the hole of the transistor plate
- fastening of clamping part onto the mounting plate by screws, no electroinsulating connection to the transistor
- dielectric strength only determined by the insulating washer between transistor and mounting surface
- no insulating bush necessary, thus no dielectric breakdown

<p>art. no.</p>  <p>ISP 220</p>			
<p>art. no.</p>  <p>ISP 220 V</p>			
<p>art. no.</p>  <p>ISP 218</p>			
<p>art. no.</p>  <p>ISP 247</p>			
<p>material:</p> <p>dielectric strength:</p> <p>heat distortion:</p> <p>dielectric constant:</p> <p>dielectric loss factor:</p> <p>specific volume resistance:</p> <p>colour:</p> <p>class of flammibility:</p>	<p>polyamide 6, GF reinforced</p> <p>>27 kV/mm</p> <p>205(1,8 MPa) 135(8 MPa)</p> <p>8 [100 Hz] / 4.5 [1 MHz]</p> <p>1300 [100 Hz] 450 [1 MHz]</p> <p>>10¹³ Ω/cm</p> <p>black</p> <p>UL 94 V-0</p>		

Mounts

art. no. MS 53 3 TO 5	art. no. MS 53 7 TO 5	art. no. MS 53 25 TO 5	art. no. MS 54 25 TO 5	art. no. MS 58 5 TO 5-8 p.
art. no. MS 58 7 TO 5-8 p.	art. no. MS 56 15 TO 5-6 p.	art. no. MS 58 15 TO 5-8 p.	art. no. MS 510 15 TO 5-10 p.	art. no. MS 3518 25 TO 5/ TO 18
art. no. MS 3518 35 TO 5/ TO 18	art. no. MS 34 518 TO 5 / TO 18	art. no. MS 183 25 TO 18	art. no. MS 184 25 TO 18	art. no. MS 183 35 TO 18
art. no. MS 184 35 TO 18	art. no. MS 183 7 TO 18	art. no. MS 184 7 TO 18	art. no. MS 84 4 TO 8	art. no. MS 923 25 TO 92
art. no. MS 4016 max. 16 contacts	art. no. US 58 4 TO 5	art. no. US 512 4 TO 5		

* = **mounting pads**: the US-pads convert the TO 5 pin circle to a pitch of .1".

material:	polyamide 6, GF reinforced
temperature range:	-40 °C ... +205 °C
class of flammability:	UL 94 V-0 (at thickness ≥3 mm), UL 94 V-1

Mounting parts for heatsinks
Heatsinks for PCB
Profiles for PCB mounting
Thermal conductive material

→ E 47 - 48
→ A 89 - 92
→ A 89 - 111
→ E 2 - 22

Insulating distance sleeves
Finger-shaped heatsinks
Retaining springs for transistors
Technical introduction

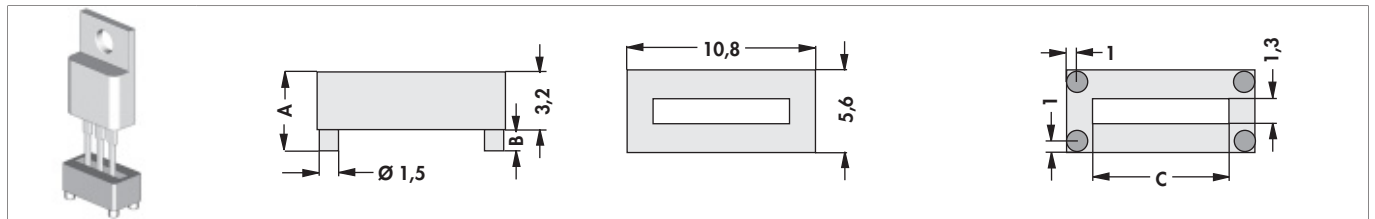
→ E 30 - 32
→ C 2 - 3
→ A 114 - 120
→ A 2 - 7

E 44

Mounts

Mounts for power transistors

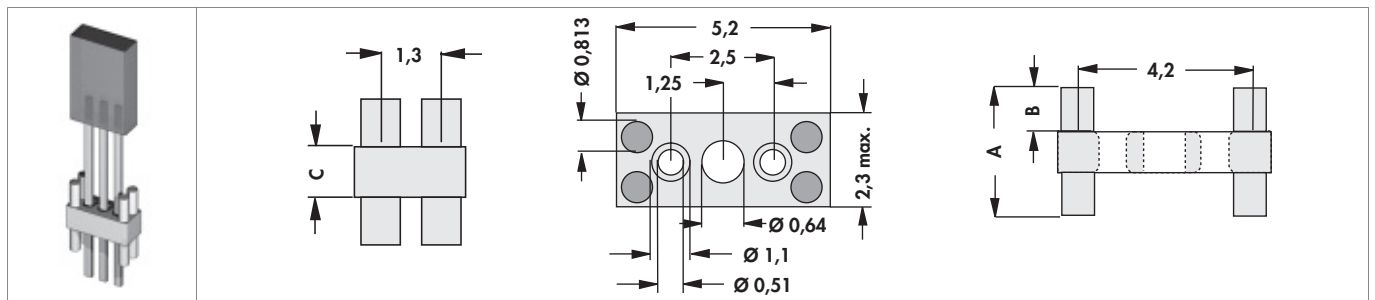
- for TO 220, TO 219, TO 202 and similar
- for vertical and horizontal mounting
- also suitable as mounting bracket for angled connections



art. no.	colour	dim. [mm]		
		A	B	C
MLW 32	white	3.2	—	7.1
MLW 44	white	4.4	1.3	7.1
MLW 51	white	5.1	1.9	7.1
material:		polyamide 6 (nylon)		
temperature range:		-40 °C ... +120 °C		
class of flammability:		UL 94 V-2		

Mounts for rectangular LEDs

- for LED 2x4 mm oder 2x5 mm
- symmetric version for easy assembly
- self-adhesive



art. no.	colour	dim. [mm]		
		A	B	C
MRL 20	white	2	0.5	1
material:		polyamide 6 (nylon)		
temperature range:		-40 °C ... +120 °C		
class of flammability:		UL 94 V-2		

E 45

Mounting parts for heatsinks
 Heatsinks for PCB
 Profiles for PCB mounting
 Thermal conductive material


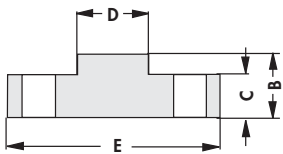
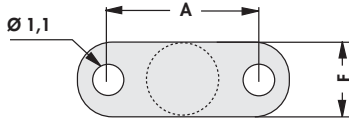

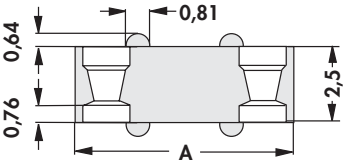
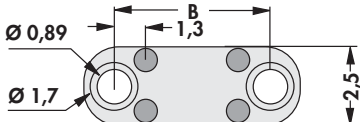

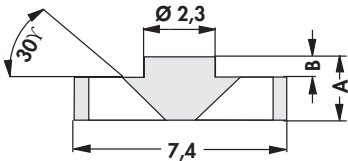
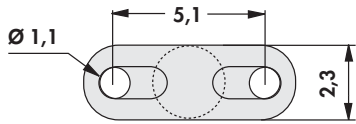
→ E 47 – 48
 → A 89 – 92
 → A 89 – 111
 → E 2 – 22

Insulating distance sleeves
 Finger-shaped heatsinks
 Retaining springs for transistors
 Technical introduction


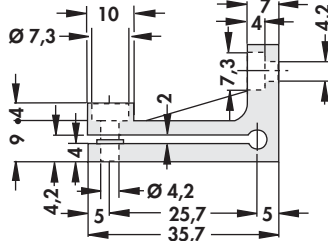
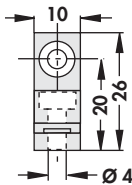

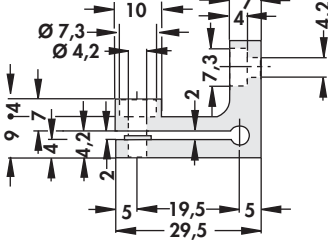
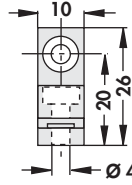

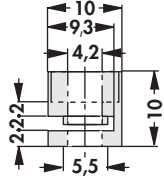
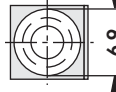

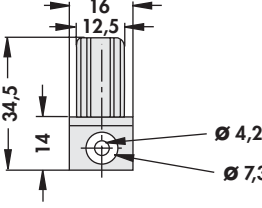
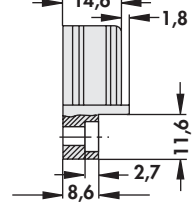
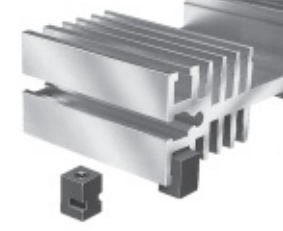
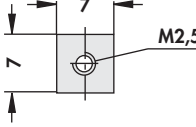
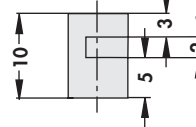
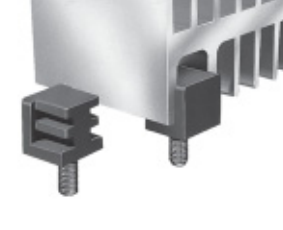
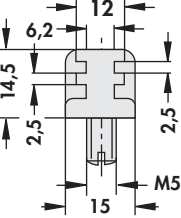
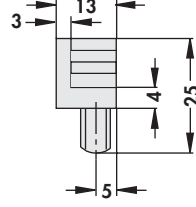
→ E 30 – 32
 → C 2 – 3
 → A 114 – 120
 → A 2 – 7

Mounts for discrete components

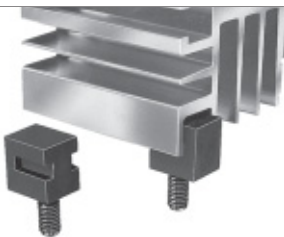
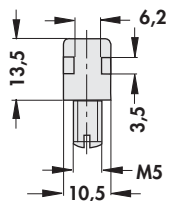
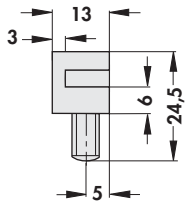
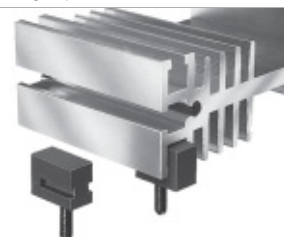
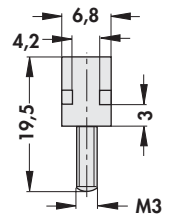
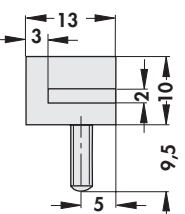
– suitable for various components e.g. resistors, capacitors etc.

			
art. no.	dim. [mm]	art. no.	dim. [mm]
	A B C D E F		A B C D E F
MD A 04	2.5 1.1 0.55 1.3 4.6 2.3	MD A 09	7.6 1.1 0.66 3.6 9.9 2.3
MD A 06	3.8 1.1 0.55 2.3 6.9 3.2	MD A 12	10.2 1.1 0.76 4.8 12.4 2.3
MD A 07	5.1 1.1 0.55 2.3 7.4 2.3		
			
art. no.	dim. [mm]	art. no.	dim. [mm]
	A B		A B
MD B 07	7.6 5.1	MD B 12	12.7 10.2
MD B 10	10.2 7.6	MD B 15	15.2 12.7
MD B 11	11.4 8.9		
			
art. no.	dim. [mm]	art. no.	dim. [mm]
	A		A B
MD C 13	1.3	MD C 22	2.2 0.89
material:	polyamide 6 (nylon)		
temperature range:	-30 °C ... +110 °C		
class of flammability:	UL 94 V-2		


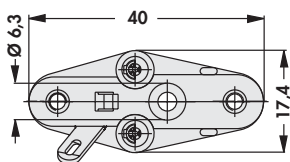
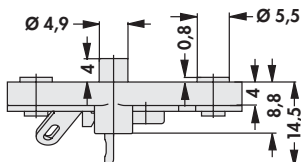
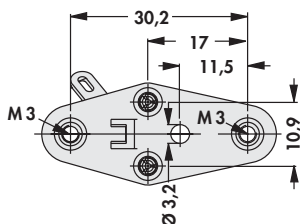
Mounting parts for heatsinks

<p>art. no.</p> <p>IS 1</p>		 	<p>for SK 01, 02, 03, 11, 14, 21, 30, 34, 36, 39, 46, 69; heatsink length: 50 mm</p>
<p>art. no.</p> <p>IS 2</p>		 	<p>for SK 01, 02, 03, 11, 14, 21, 30, 34, 36, 39, 46, 69; heatsink length: 37,5 75 100 mm</p>
<p>art. no.</p> <p>IS 3</p>		 	<p>for SK 01, 02, 03, 11, 14, 21, 30, 34, 36, 39, 46, 69</p>
<p>art. no.</p> <p>IS 4</p>		 	<p>for SK 06</p>
<p>art. no.</p> <p>IS 5</p>		 	<p>for SK 20</p>
<p>art. no.</p> <p>IS 6</p>		 	<p>for SK 67</p>
<p>material:</p> <p>class of flammability:</p>		<p>polyamide 6, GF reinforced</p> <p>UL 94 V-0</p>	

Mounting parts for heatsinks

art. no.			
IS 7	for SK 70		
art. no.			
IS 8	for SK 20		
material:	polyamide 6, GF reinforced		
class of flammability:	UL 94 V-0		


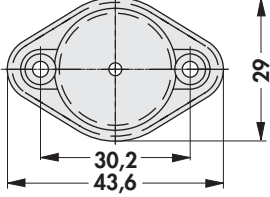
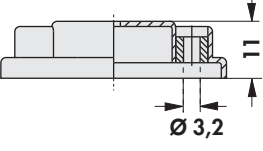

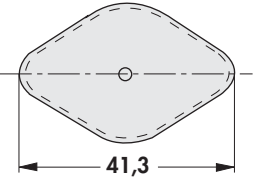
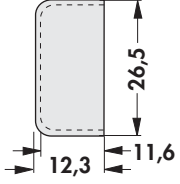
Sockets for power transistors TO 3

			
art. no.	no. of contacts		
TF 3 2	3		
insulator:	PCT, glassfibre filled		
contact:	beryllium copper; 4 ... 6 μm Sn		
current rating:	15 A max.		
contact resistance:	<10 mΩ		
temperature range:	-65 °C ... +290 °C		
insulation resistance:	>10 ¹⁰ Ω/cm		
capacity:	1 pF		
test voltage:	1650 V		
class of flammability:	UL 94 V-0		

A

Insulating caps

– different transistor flange levels will be by the sleeves

art. no. IK 341 3			
art. no. IK 3			
material:	polyamide, GF reinforced		
pressed-in sleeves:	brass, nickel-plated		
class of flammability:	UL 94 V-0		

E

F

G

H

I

K

L

M

N

E 49
Mica wafers
Thermal conductive material
Mounting for TO 3 angle
Die-cast heatsinks

 → E 17 **Aluminium oxide wafers**
 → E 2 – 5 **Thermal conductive paste**
 → A 123 **Thermal conductive glue**
 → A 123 – 126 **Technical introduction**

 → E 15 – 16
 → E 19 – 20
 → E 21 – 22
 → A 2 – 7

Insulating bush

art. no. IB 1 / IBT 1	art. no. IB 2 / IBT 2	art. no. IB 3 / IBT 3	art. no. IB 4 / IBT 4	art. no. IB 5
art. no. IB 6 / IBT 6	art. no. IB 7 / IBT 7	art. no. IB 8 / IBT 8	art. no. IB 9 / IBT 9	art. no. IB 10 / IBT 10
art. no. IB 11 / IBT 11	art. no. IB 12 / IBT 12	art. no. IB 13	art. no. IB 14 / IBT 14	art. no. IB 15 / IBT 15
art. no. IB 16	art. no. IB 17	art. no. IB 18 / IBT 18		

	IB 1 - IB 7 / 18	IBT 1 - IBT 15 / 18	IB 8 - IB 17
material	polyamide 4.6, GF reinforced	PTFE (teflon)	thermoplastic resin
form stability	-40 °C ... +250 °C (1,8 MPa)	-260 °C ... +250 °C	-40 °C ... +200 °C
dielectric strength	>30 kV/mm	>40 kV/mm	>38 kV/mm
class of flammability		UL 94 V-0	

Mica wafers
Thermal conductive material
Mounting for TO 3 angle
Die-cast heatsinks

→ E 17
→ E 2 - 5
→ A 123
→ A 123 - 126

Aluminium oxide wafers
Thermal conductive paste
Thermal conductive glue
Technical introduction

→ E 15 - 16
→ E 19 - 20
→ E 21 - 22
→ A 2 - 7

E 50

A

B

C

D

E

F

G

H

I

K

L

M

N