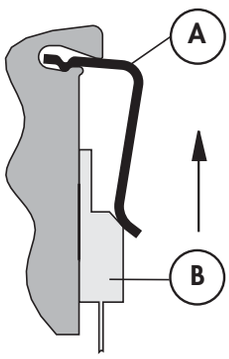
Lock-in retaining spring for transistors

– **universal lock-in retaining spring** for types TO 218, TO 220, TO 247, TO 264 and various SIP-Multiwatt etc. transistor housings
– clip fastening also for power transistors without holes, MAX types etc.
– easy assembly and secure hold when using a special groove geometry in heatsinks, housing parts etc.
– optimal heat transfer between component and cooling element
– various spring clip shapes available for fastening the components (see sketch)
– the range of suitable heat sinks is continuously extended
– versions specifically designed to meet customers requirements on request

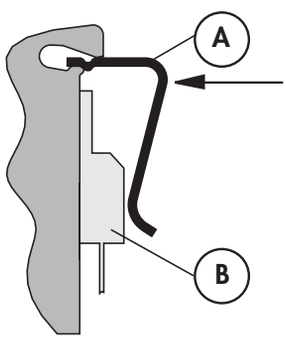
Installation

THFU 1

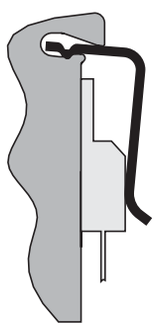


– **insert** the lock-in retaining spring for transistors THFU 1 (A) into the groove of the profile
– **push** transistor (B) below the spring

THFU 2, THFU 3, THFU 4, THFU 5, THFU 6



– **place** transistor (B) onto the mounting area
– **press** the lock-in retaining spring for transistors THFU 2 - 6 (A) into the groove of the profile (a suitable installation aid will facilitate pressing in)



– Once in place, the spring will keep its position and fix the transistor with a high contact pressure on the installation surface (the spring remains in its position and it can neither be moved in a lengthwise direction nor fall it can out of the groove in a cross direction).

material:	stainless steel
material thickness:	0.8 mm

Mica wafers → **E 17**
Kapton insulator washers → **E 14**
Mounting parts for heatsinks → **E 47 – 48**
Mounting material for semiconduct. → **E 42 – 46**
Thermal conductive material → **E 2 – 5**
Insulating caps → **E 49**
Thermal conductive paste → **E 19**
Technical introduction → **A 2 – 7**

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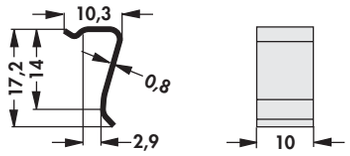
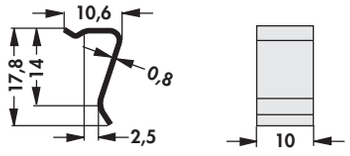
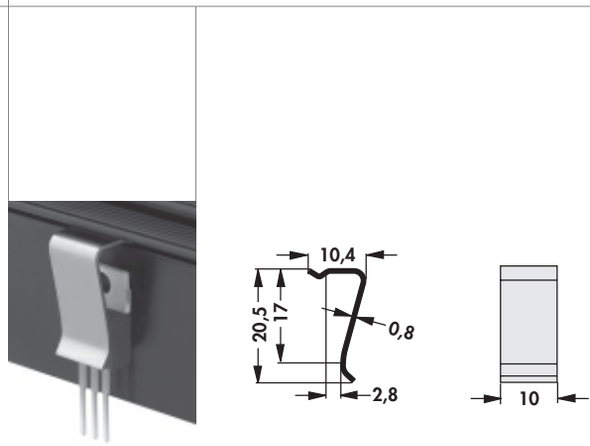
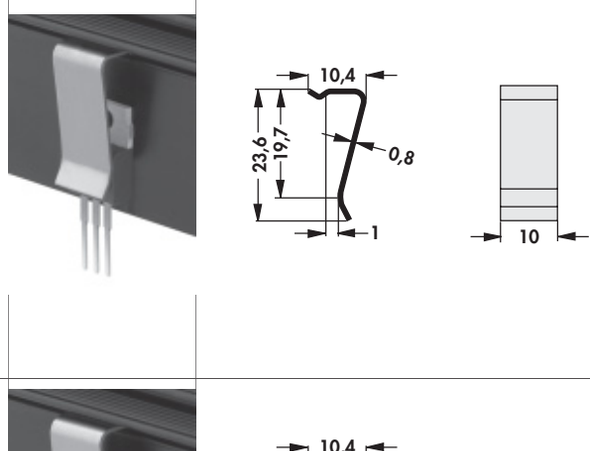
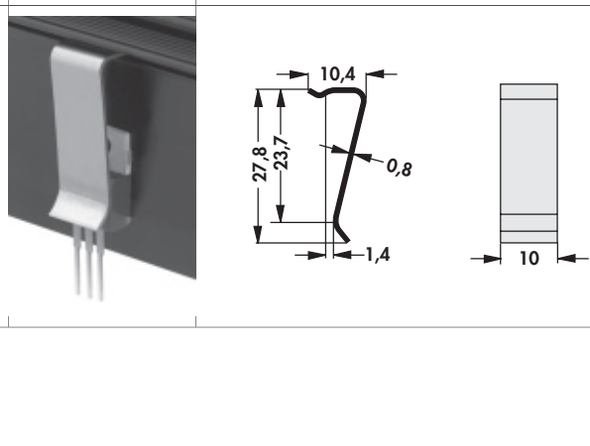
Lock-in retaining spring for transistors

art. no.	for transistor-housing	suitable for heatsinks	spring force [N]	material	
THFU 1	TO 218/ TO 220/ TO 247/ TO 262/ SOT 199/ SOT 429/ TO 3 P	SK 480/ SK 481/ SK 482/ SK 483/ SK 487/ SK 489/ SK 490/ SK 492/ SK 495/ SK 499/ SK 512/ SK 514/ SK 573/ SK 574/ SK 575/ SK 576/ SK 589/ SK 593/ LAM 3 K/ LAM 4 K/ LAM 5 K	60 ±5	stain-less steel	 
THFU 2	TO 218/ TO 220/ TO 247/ TO 262/ SOT 199/ SOT 429/ TO 3 P	SK 480/ SK 481/ SK 482/ SK 483/ SK 487/ SK 489/ SK 490/ SK 492/ SK 495/ SK 499/ SK 512/ SK 514/ SK 573/ SK 574/ SK 575/ SK 576/ SK 589/ SK 593/ LAM 3 K/ LAM 4 K/ LAM 5 K	60 ±5	stain-less steel	 

Mica wafers → E 17
Kapton insulator washers → E 14
Mounting parts for heatsinks → E 47 – 48
Mounting material for semiconduct. → E 42 – 46
Thermal conductive material → E 2 – 5
Insulating caps → E 49
Thermal conductive paste → E 19
Technical introduction → A 2 – 7

Lock-in retaining spring for transistors

art. no.	for transistor-housing	suitable for heatsinks	spring force [N]	material	
THFU 3	TO 218/ TO 220/ TO 247/ TO 262/ SOT 199/ SOT 429/ TO 3 P	SK 480/ SK 481/ SK 482/ SK 483/ SK 487/ SK 489/ SK 490/ SK 492/ SK 495/ SK 499/ SK 514/ SK 573/ SK 574/ SK 575/ SK 576/ SK 589/ SK 593/ LAM 3 K/ LAM 4 K/ LAM 5 K	50 ±5	stainless steel	
THFU 4	TO 218/ TO 202/ TO 220/ TO 248/ TO 262/ TO 264/ SOT 199/ TO 3 P	SK 480/ SK 481/ SK 482/ SK 483/ SK 487/ SK 489/ SK 490/ SK 495/ SK 499/ SK 514/ SK 575/ SK 589/ SK 593/ LAM 5 K	32 ±5	stainless steel	
THFU 5	TO 218/ TO 202/ TO 220/ TO 247/ TO 248/ TO 262/ TO 264/ SOT 199/ SOT 429/ TO 3 P	SK 490/ SK 589/ LAM 5 K	25 ±5	stainless steel	

Mica wafers → **E 17**
Kapton insulator washers → **E 14**
Mounting parts for heatsinks → **E 47 – 48**
Mounting material for semiconduct. → **E 42 – 46**
Thermal conductive material → **E 2 – 5**
Insulating caps → **E 49**
Thermal conductive paste → **E 19**
Technical introduction → **A 2 – 7**

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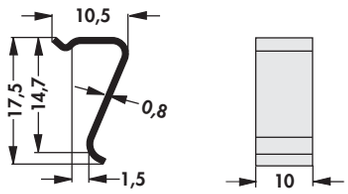
Lock-in retaining spring for transistors

– THFU 6 for transistors with low component height

art. no.	for transistor-housing	suitable for heatsinks	spring force [N]	material	
THFU 6	TO 126/ TO 218/ TO 220/ TO 225/ TO 247/ TO 248/ TO 251/ SOT 32/ TO 3 P	SK 480/ SK 481/ SK 482/ SK 483/ SK 487/ SK 489/ SK 490/ SK 492/ SK 495/ SK 499/ SK 512/ SK 514/ SK 573/ SK 574/ SK 575/ SK 576/ SK 589/ SK 593/ LAM 3 K/ LAM 4 K/ LAM 5 K	65 ±5	stain-less steel	 

Mica wafers	→ **E 17**	**Thermal conductive material**	→ **E 2 – 5**
Kapton insulator washers	→ **E 14**	**Insulating caps**	→ **E 49**
Mounting parts for heatsinks	→ **E 47 – 48**	**Thermal conductive paste**	→ **E 19**
Mounting material for semiconduct.	→ **E 42 – 46**	**Technical introduction**	→ **A 2 – 7**