

# amecthermasol

## Pressfin Heat Sinks / TPF Series

Pressfin heat sinks are 30-40% more efficient when compared to extruded or die cast heat sinks, thus ensuring a low thermal difference between the heat sink & the device.

Round pins offer a greater surface area when compared to square pins.

Pressfin heat sinks react much faster as the manufacturing process ensures the atomic structure of the aluminium is in the direction of the heat flow.

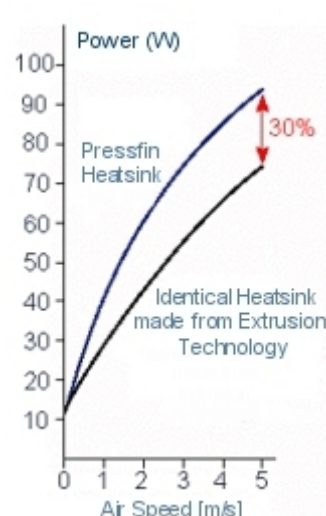
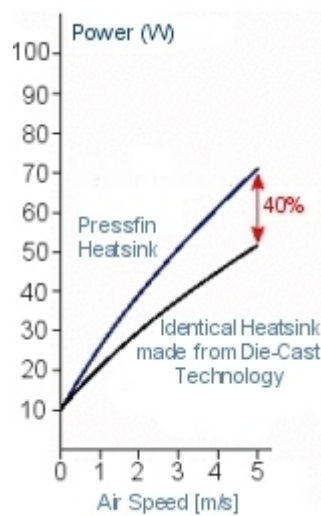
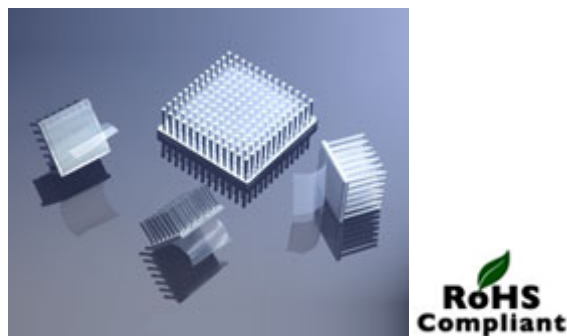
They are particularly suitable for applications generating high levels of heat and where space & weight are at a premium.

Manufactured from Al99,0-99 pure aluminium with a thermal conductivity of 210~236 W/mk.

Very smooth mounting surface <8Rz, ensuring low thermal impedance from the contact area.

Fully automated "one movement" manufacturing process produces a 20% cost saving when compared to extruded or die cast heat sinks.

Sizes from 10 x 10mm up to 100 x 100mm with a wide variety of pin forms.



### AMEC Thermasol

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### Technical Advantages Of Pressfin

Use of pure aluminium (Al99,0-99,9) which already results in higher thermal conductivity of the basic material.

AlSiCu3 - Die casting alloys = 150~160 W/mk

AlMgSiO,5 - Continuous casting alloys = 180~200 W/mk

AL99,0-99,9 - Pure Aluminium = 210~236 W/mk

### Dimensional Data:

Part Number	Length	Width	Height	Pin Height	Base Plate	Pin Ø	Number of Pins
TPF100-10-36-36	36	36	10	6.5	3.5	1.8	100
TPF100-15-36-36	36	36	15	11.5	3.5	1.8	100
TPF100-20-36-36	36	36	20	16.5	3.5	1.8	100
TPF100-25-36-36	36	36	25	21.5	3.5	1.8	100
TPF121-10-40-40	40	40	10	6.5	3.5	1.8	121
TPF121-15-40-40	40	40	15	11.5	3.5	1.8	121
TPF121-20-40-40	40	40	20	16.5	3.5	1.8	121
TPF121-25-40-40	40	40	25	21.5	3.5	1.8	121
TPF144-10-45-45	45	45	10	6.5	3.5	1.8	144
TPF144-15-45-45	45	45	15	11.5	3.5	1.8	144
TPF144-20-45-45	45	45	20	16.5	3.5	1.8	144
TPF144-25-45-45	45	45	25	21.5	3.5	1.8	144
TPF16-10-14-14	14	14	10	8.0	2.0	1.5	16
TPF16-10-14.8-14.8	14.8	14.8	10	6.5	3.5	1.8	16
TPF16-15-14.8-14.8	14.8	14.8	15	11.5	3.5	1.8	16
TPF16-20-14.8-14.8	14.8	14.8	20	16.5	3.5	1.8	16
TPF16-25-14.8-14.8	14.8	14.8	25	21.5	3.5	1.8	16
TPF16-6-14-14	14	14	6.0	4.0	2.0	1.5	16
TPF169-10-50-50	50	50	10	6.5	3.5	1.8	169
TPF169-15-50-50	50	50	15	11.5	3.5	1.8	169
TPF169-20-50-50	50	50	20	16.5	3.5	1.8	169
TPF169-25-50-50	50	50	25	21.5	3.5	1.8	169

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TPF25-10-17.3-17.3	17.3	17.3	10	6.5	3.5	1.8	25
TPF25-15-17.3-17.3	17.3	17.3	15	11.5	3.5	1.8	25
TPF25-20-17.3-17.3	17.3	17.3	20	16.5	3.5	1.6	25
TPF25-25-17.3-17.3	17.3	17.3	25	21.5	3.5	1.8	25
TPF255-20-98-98	98	98	20	15	5.0	1.8	255
TPF255-25-98-98	98	98	25	20	5.0	1.8	255
TPF255-40-98-98	98	98	40	35	5.0	3.0	255
TPF255-45-98-98	98	98	45	40	5.0	3.0	255
TPF31-35-40-51	40	51	35	27	8.0	5.0	31
TPF31-45-40-51	40	51	45	37	8.0	5.0	31
TPF31-50-40-51	40	51	50	42	8.0	5.0	31
TPF36-10-21-21	21	21	10	6.5	3.5	1.8	36
TPF36-15-21-21	21	21	15	11.5	3.5	1.8	36
TPF36-20-21-21	21	21	20	16.5	3.5	1.8	36
TPF36-25-21-21	21	21	25	21.5	3.5	1.8	36
TPF49-10-25-25	25	25	10	8.0	2.0	1.5	49
TPF49-12.5-18-18	18	18	12.5	10.5	2.0	1.5	49
TPF49-12.5-20.8-20.8	20.8	20.8	12.5	10.5	2.0	1.5	49
TPF49-12.5-25-25	25	25	12.5	10.5	2.0	1.5	49
TPF49-18.5-18-18	18	18	18.5	18.5	2.0	1.5	49
TPF49-18.5-20.8-20.8	20.8	20.8	18.5	16.5	2.0	1.5	49
TPF49-18.5-25-25	25	25	18.5	16.5	2.0	1.5	49
TPF49-4.6-25-25	25	25	4.6	2.6	2.0	1.5	49
TPF49-6.0-25-25	25	25	6.0	4.0	2.0	1.5	49
TPF49-6.5-18-18	18	18	6.5	4.5	2.0	1.5	49
TPF49-6.5-20.8-20.8	20.8	20.8	6.5	4.5	2.0	1.5	49
TPF49-6.5-25-25	25	25	6.5	4.5	2.0	1.5	49
TPF6-18.5-10-7	10	7.0	6.0	16.5	2.0	1.5	6
TPF6-6-10-7	10	7.0	6.0	4.0	2.0	1.5	6
TPF60-25-50-50	50	50	25	18	7.0	3.5	60
TPF60-35-50-50	50	50	35	28	7.0	3.5	60
TPF60-45-50-50	50	50	45	38	7.0	3.5	60
TPF60-50-50-50	50	50	50	43	7.0	3.5	60
TPF62-40-86-60	86	60	40	32	8.0	5.0	62
TPF62-53-86-60	86	60	53	45	8.0	5.0	62
TPF64-10-29-29	29	29	10	6.5	3.5	1.8	64
TPF64-15-29-29	29	29	15	11.5	3.5	1.8	64
TPF64-20-29-29	29	29	20	16.5	3.5	1.8	64

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TPF64-25-29-29	29	29	25	21.5	3.5	1.8	64
TPF78-40-50-50	50	50	40	32	8.0	3.0	78
TPF78-50-50-50	50	50	50	45	8.0	3.0	78
TPF81-10-32-32	32	32	10	6.5	3.5	1.8	81
TPF81-15-32-32	32	32	15	11.5	3.5	1.8	81
TPF81-20-32-32	32	32	20	16.5	3.5	1.8	81
TPF81-25-32-32	32	32	25	21.5	3.5	1.8	81
TPF81-30-50-50	50	50	30	26.5	3.5	3.0	81
TPF81-35-50-50	50	50	35	31.5	3.5	3.0	81
TPF81-40-50-50	50	50	40	36.5	3.5	3.0	81
TPF81-45-50-50	50	50	45	41.5	3.5	1.8	81
TPF81-50-50-50	50	50	50	46.5	3.5	3.0	81
TPF9-10.5-10-10	10	10	10.5	8.5	2.0	1.5	9
TPF9-12.5-10-10	10	10	12.5	10.5	2.0	1.5	9
TPF9-18.5-10-10	10	10	18.5	16.5	2.0	1.5	9
TPF9-6.5-10-10	10	10	6.5	4.5	2.0	1.4	9

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