



MingfaTech Manufacturing Limited

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LED THERMAL SOLUTION

Leading Provider



MingfaTech Manufacturing Limited

Overview

With professional know-how focused on LED cooling, MingfaTech brings high value to all its customers' esteemed brands. MingfaTech believes that any good LED thermal solution can make solid state lighting work more efficiently.

Therefore, as a LED thermal solution leading provider, MingfaTech is not only working on high quality, reasonable price and satisfactory lead time for clients, but also providing optimized designs derived from the early concepts. In other words, MingfaTech cares more about the complete value it can offer to clients by its full concentration on LED coolers more than the product itself.

Capabilities

MingfaTech is now holding with its own professional mechanical manufacturers in LED market but different production processes as aluminum extrusion, cold forging, die casting, deep drawing, sheet metal stamping, CNC cutting, laser cutting, milling, turning, welding, anodizing, power coating, silk screening, assembly, etc.

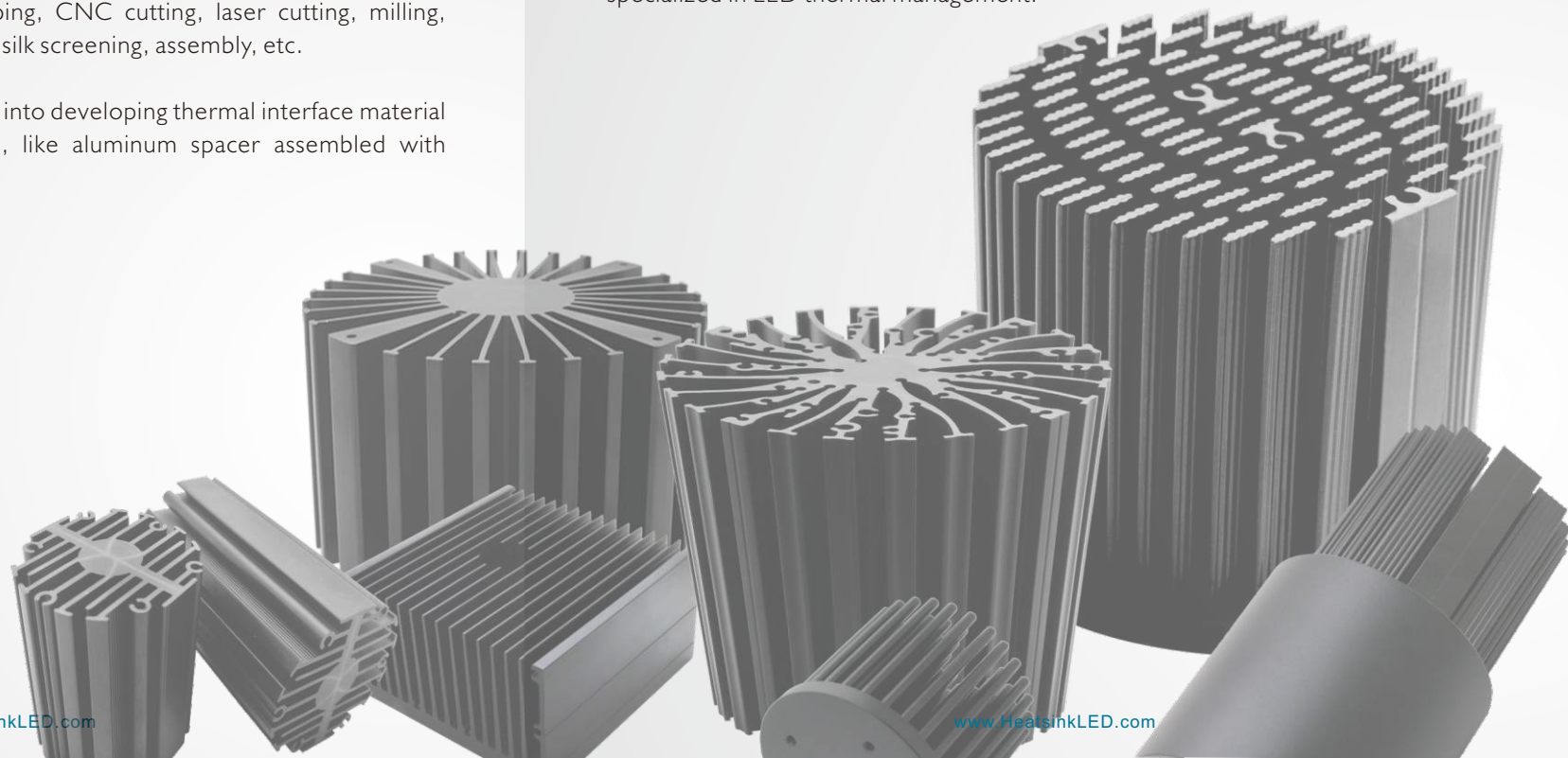
At the end of 2014, MingfaTech has stepped into developing thermal interface material between LED coolers and LED modules, like aluminum spacer assembled with thermal pad.

Established a strategic partnership with **Xicato, Bridgelux, LumiLEDs, Luminus, Seoul Semiconductor, LG Innotek, international light source brands**. All MingfaTech coolers compatible with more than **20 COB brands**.

Markets

Currently, MingfaTech has gained very good reputation from hundreds of valued customers in America, Europe, Middle East, Asia, Australia and rest of the world, who are mainly LED light manufacturers, LED OEM suppliers, LED design companies, LED consultant firms, LED distributors, and so on.



With more than seven years experiences in LED coolers manufacturing, as a trustworthy turnkey solution partner for all clients in LED industry, so the company is specialized in LED thermal management.

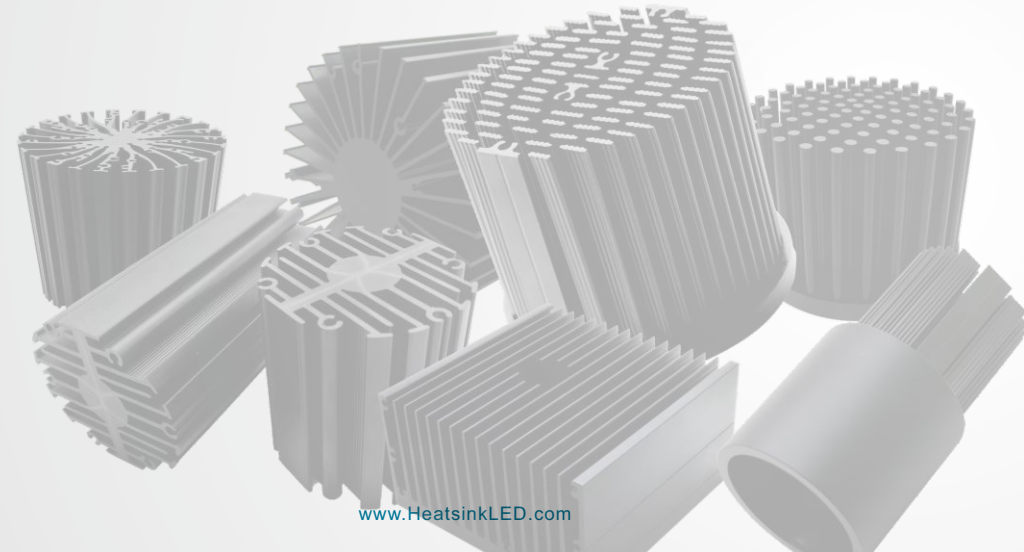


Mingfa Tech LED COOLER OVERVIEW

Product series	Item No.	Style	Diameter (mm)	Height (mm)	Net Weight (g/pcs)	Thermal Resistance(°C/W)	Thermal Wattage (W)	Cooling Performance(lm)		
	eLED-46	Extrusion AL6063-T5	Φ46	20	41.0	6.25	8.0	300-1200		
				50	100.9	5.00	10.0	500-1400		
				80	161.5	3.80	13.0	500-1600		
	eLED-70		Φ70	20	83.0	3.00	16.5	500-2100		
				50	206.0	2.18	22.9	800-2900		
				80	329.0	1.77	28.2	1200-3600		
	eLED-95		Φ95	20	141.5	1.72	29.1	1500-3800		
				50	353.0	1.25	40.5	1800-5200		
				80	564.0	1.10	49.2	2000-6300		
	xLED-45	Forging AL1070	Φ45	30	45.0	6.40	7.8	300-1200		
				50	63.5	5.00	10.0	500-1400		
				68	90.0	4.20	12.0	500-1600		
	xLED-60		Φ60	30	80.0	4.20	12.0	500-1600		
				50	112.0	3.30	15.5	500-2000		
	xLED-70		Φ70	30	106.0	3.30	15.0	500-2000		
				50	150.0	2.56	19.5	800-2500		
	xLED-80		Φ80	30	140.0	2.70	15.5	500-2000		
				50	197.0	1.96	25.5	800-3300		
			tLED-9290	Extrusion AL6063-T5	L92xW90	30	336.0	1.50	34.0	1500-4500
						50	486.0	1.06	47.0	2500-6100
			tLED-19070			L190xW70	30	553.0	0.95	53.0
50		770.0					0.70	71.0	3500-9200	
	BuLED-30E BuLED-50E BuLED-30F BuLED-50F BuLED-68F BuLED-30Fx BuLED-50Fx BuLED-68Fx	Forging AL1070 +Extrusion AL6063-T5	Φ50	30	106.0	4.20	9~12	500-1400		
				50	155.0	3.70	12~15	500-1900		
				30	75.0	4.20	9~12	500-1400		
				50	93.0	3.70	12~15	500-1500		
				68	122.0	3.70	13~16	500-1700		
				30	76.0	4.20	9~12	500-1400		
				50	95.0	3.70	12~15	500-1500		
				68	125.0	3.70	13~16	500-1700		
					EtraLED-48	Extrusion AL6063-T5	Φ48	20	53.0	6.25
50	134.0	4.20	12.0					500-1600		
80	213.0	3.60	14.0					800-1800		
EtraLED-70	Φ70	20	77.0		3.57		14.0	800-1800		
		50	192.0		2.20		23.0	1200-3100		
		80	308.0		1.80		28.0	1500-3700		
EtraLED-85	Φ85	20	115.0		2.00		25.0	1200-3300		
		50	286.0		1.50		34.0	2000-4200		
		80	458.0		1.30		38.0	1800-5000		
EtraLED-96	Φ96	20	144.0		1.80		28.0	1500-3700		
		50	360.0		1.20		37.5	1800-5000		
		80	575.0		0.92		49.0	2500-6200		
EtraLED-110	Φ110	20	165.0		1.50		33.0	2000-4000		
		50	414.0		1.10		48.0	2500-6000		
		80	662.0		0.90		57.0	3000-7200		
EtraLED-130	Φ130	20	274.0		1.10		42.0	2500-5200		
		40	553.0		0.98		51.0	3000-6800		
		50	684.0		0.90		56.5	3000-7200		
		80	1108.0	0.70	70.5	5000-9100				
		100	1300.0	0.65	75.0	5000-9700				

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Product series	Item No.	Style	Diameter (mm)	Height (mm)	Net Weight (g/pcs)	Thermal Resistance(°C/W)	Thermal Wattage (W)	Cooling Performance(lm)
	GooLED-48	Forging AL1070	Φ48	30	46.0	5.60	8.8	300-1300
				50	63.0	4.20	12.0	500-1600
				68	91.0	3.70	13.5	500-1700
				80	101.0	3.47	14.4	500-1800
	GooLED-58		Φ58	30	79.0	4.50	11.2	500-1600
				50	114.0	3.30	15.0	500-1800
	GooLED-68		Φ68	80	182.0	2.82	17.7	500-2200
				30	107.0	3.50	14.3	500-2000
				50	153.0	2.70	18.5	800-2200
				60	176.0	2.50	20.0	800-2500
	GooLED-78		Φ78	80	245.0	2.27	22.0	800-2800
				30	138.0	2.70	18.0	800-2400
50		197.0		2.10	24.0	800-3000		
80		316.0		1.67	30.0	1000-3800		
GooLED-110	Φ110	30	463.0	1.30	39.0	1800-5000		
		50	617.0	0.92	50.5	2000-6500		
	SimpoleLED-58	Extrusion AL6063-T5	Φ58	50	174.0	3.70	12.2	500-1600
				80	244.0	2.90	15.5	500-2000
	SimpoleLED-81		Φ81	50	318.0	1.90	26.5	1200-3400
				80	508.0	1.60	31.0	1800-4000
	SimpoleLED-135		Φ135	50	638.0	0.83	63.0	2800-8000
				80	1020.0	0.71	70.0	3200-9100
	SimpoleLED-160		Φ160	50	1052.0	0.68	71.3	3200-9200
				100	2104.0	0.48	100.0	5000-13000
				150	3155.0	0.42	120.0	5000-16000



MENU

eLED coolers 2017 New

eLED-46	2
eLED-70	2
eLED-95	2

xLED coolers 2017 New

xLED-45	4
xLED-60	4
xLED-70	4
xLED-80	4

tLED coolers 2017 New

tLED-9290	6
tLED-19070	6

BuLED coolers

BuLED-30E/50E	8
BuLED-30F/50F/68F	8
BuLED-30Fx/50Fx/68Fx	8

EtraLED coolers

EtraLED-48	9
EtraLED-70	9
EtraLED-85	10
EtraLED-96	10
EtraLED-110	10
EtraLED-130	10

MENU

GooLED coolers

GooLED-48	11
GooLED-58	11
GooLED-68	12
GooLED-78	12
GooLED-110	12
GooLED-190	12

SimpoleD coolers

SimpoleD-58	14
SimpoleD-81	14
SimpoleD-135	14
SimpoleD-160	14

Reflector Series

JTK69xx-RE-K	16
JTK75xx-RE-K	16
JTK85xx-RE-K	16
JTK92xx-RE-K	16

Power Supply

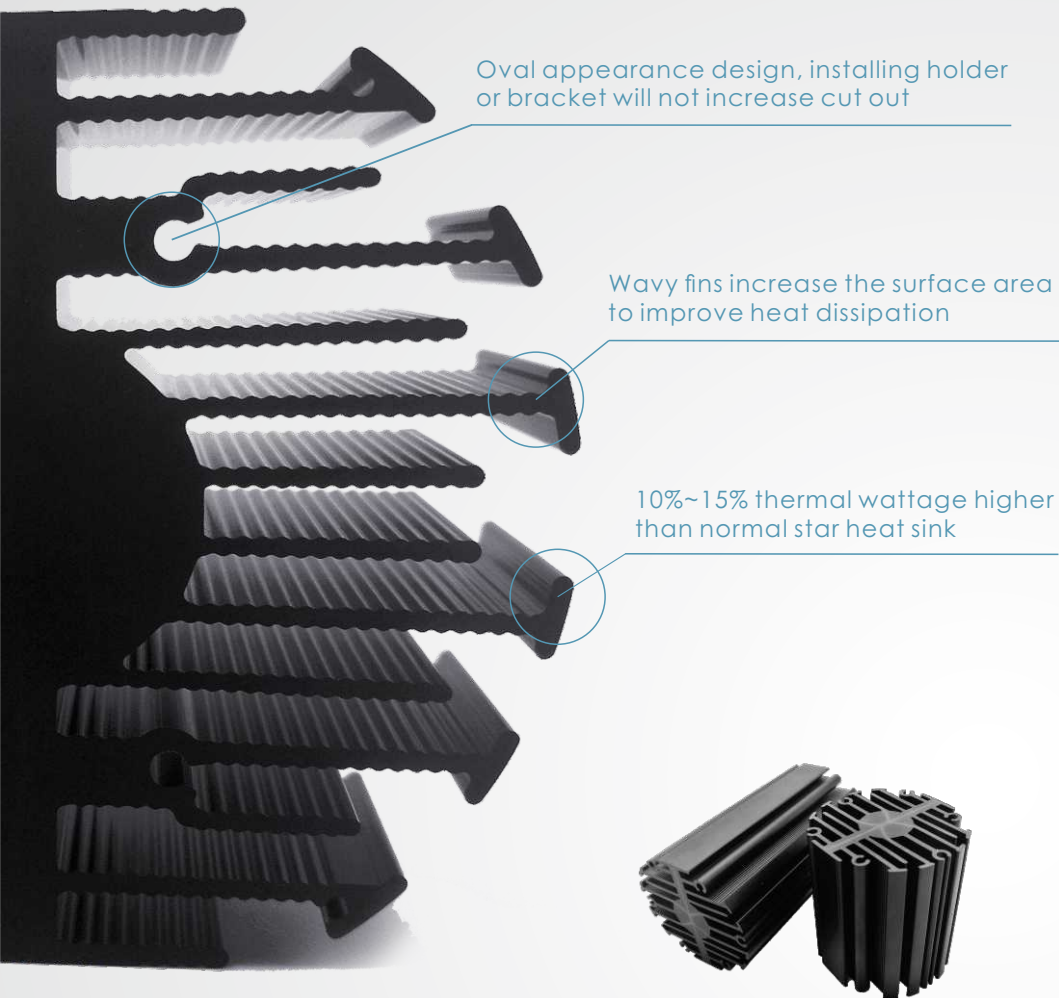
Ro1	17
Ro2	17
Ro3	17
Ro5	18
Rt1/Rt2	18
Rt3	18



TW: Thermal Wattage TR: Thermal Resistance

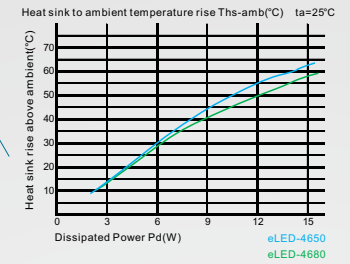
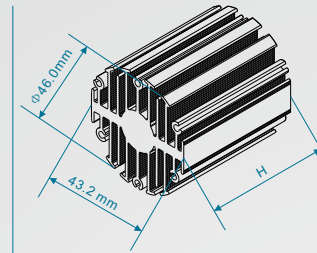
BuLED-E/eLED/EtraLED/SimpoleD coolers: Customized for height $\geq 20\text{mm}$

eLED coolers



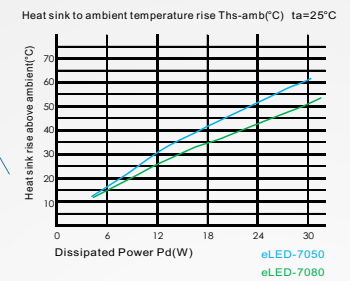
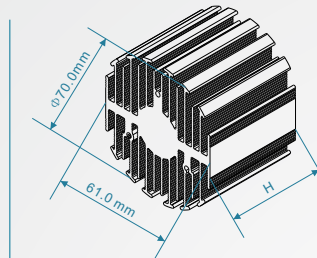
eLED-46

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 13.0W
- TR: 3.80~5.00°C/W



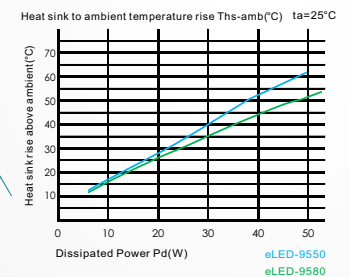
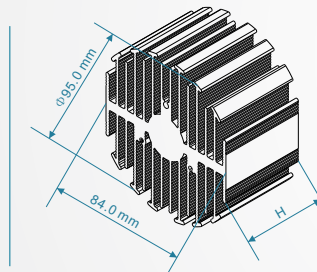
eLED-70

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 28.2W
- TR: 1.77~2.18°C/W



eLED-95

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 49.2W
- TR: 1.10~1.25°C/W



xLED coolers

Holes on the top for locking wires

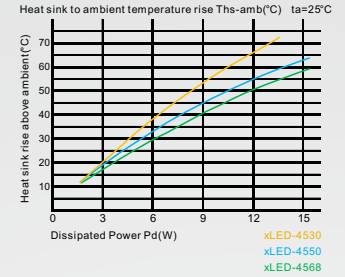
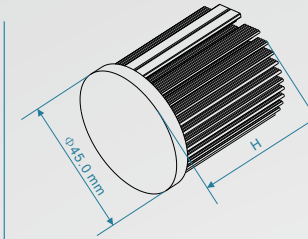
Wavy fins design can improve cooling area to 91577mm²

Side fins can be drilled with 8*M3 holes

Solid bottom plate can meet IP65~IP67

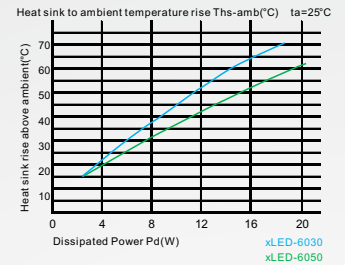
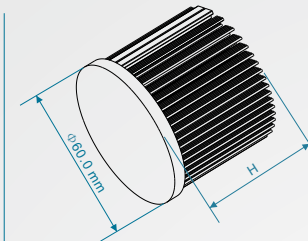
xLED-45

- Size: H30/50/68mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 12.0W
- TR: 4.20~6.40°C/W



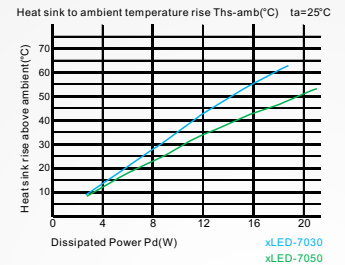
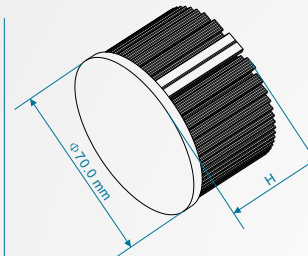
xLED-60

- Size: H30/50mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 15.5W
- TR: 3.30~4.20°C/W



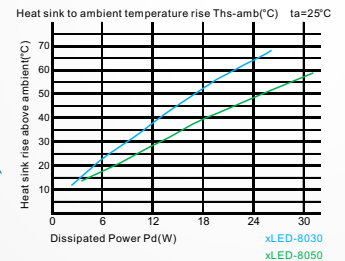
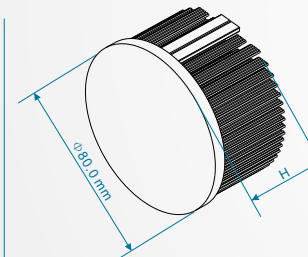
xLED-70

- Size: H30/50/60mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 19.5W
- TR: 2.56~3.30°C/W



xLED-80

- Size: H30/50mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 25.5W
- TR: 1.96~2.70°C/W



tLED coolers

AL6063-T5 thermal conductivity is **1.5 times higher than ADC12**

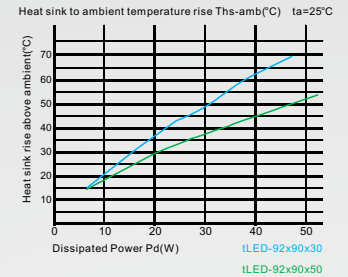
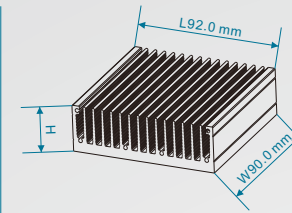
Compatible with more than 20 SMD brands

Above 12 self-tapping holes on two sides of the fins

Solid plate design to meet the **IP65~IP67**

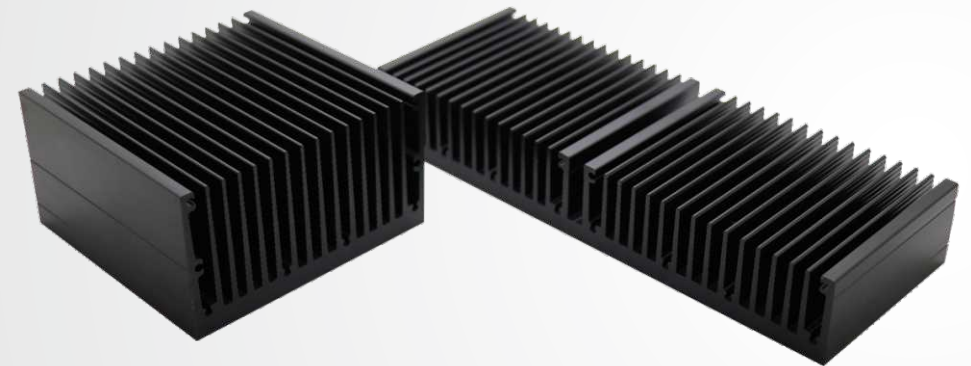
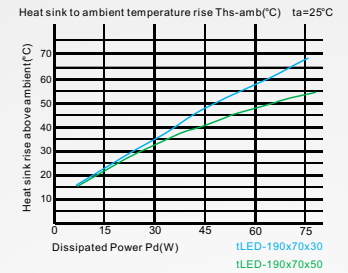
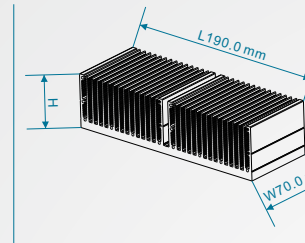
tLED-9290

- Size: H30/50mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 47.0W
- TR: 1.06~1.50°C/W



tLED-19070

- Size: H30/50mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 71.0W
- TR: 0.70~0.95°C/W



BuLED coolers



Standard cold forging heat sink
Extra side holes for
installing holder, driver or fan

Adapter MR16 LED modules **High CRI**,
create more concentrated lighting

Compatible with more than 20 COB
brands **covering 85% modules**

BuLED-Fx



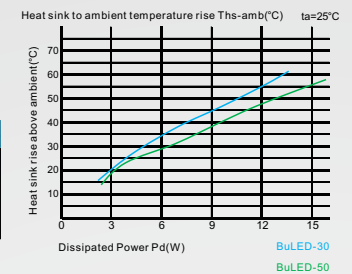
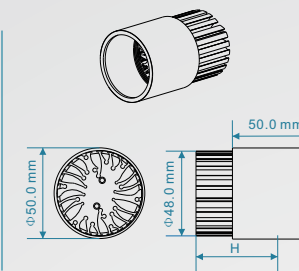
BuLED-E



BuLED-F

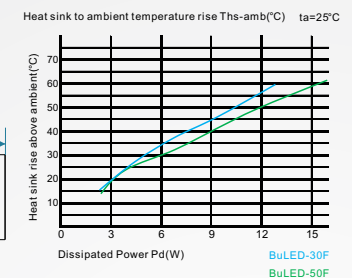
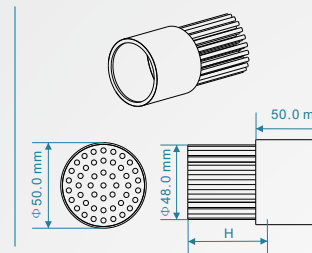
BuLED-30E/50E

- Size: H30/50mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.0W
- TR: 3.70~4.20°C/W



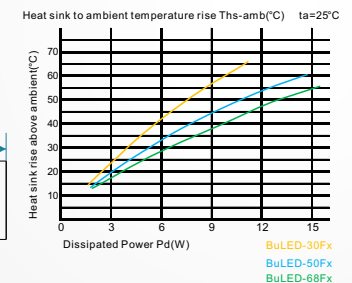
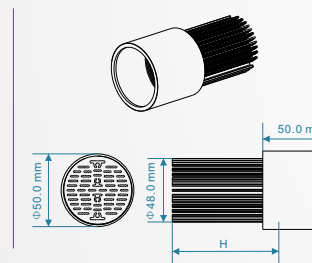
BuLED-30F/50F/68F

- Size: H30/50/68mm
- Material: AL1070+6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.0W
- TR: 3.70~4.20°C/W



BuLED-30Fx/50Fx/68Fx

- Size: H30/50/68mm
- Material: AL1070+6063-T5
- Finish: Black/Clear Anodized
- TW(max): 13.0W
- TR: 3.80~6.40°C/W



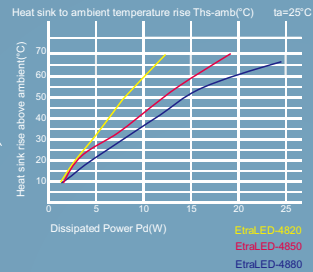
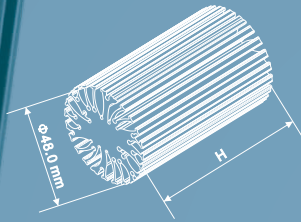
EtraLED coolers

Compatible with more than 20 COB brands. **Covering 85-95% of modules**

AL6063-T5 material

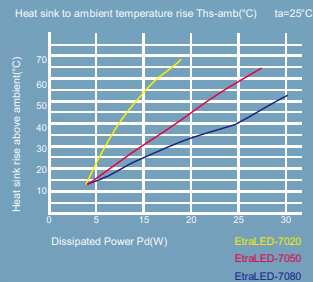
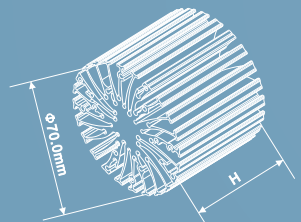
EtraLED-48

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 14.0W
- TR: 3.60~6.25°C/W



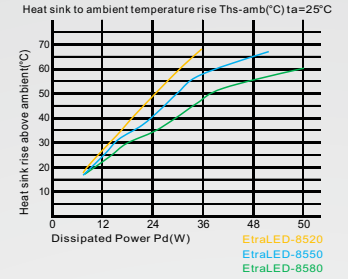
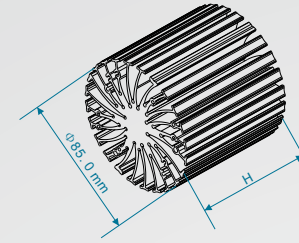
EtraLED-70

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 28.1W
- TR: 1.80~3.57°C/W



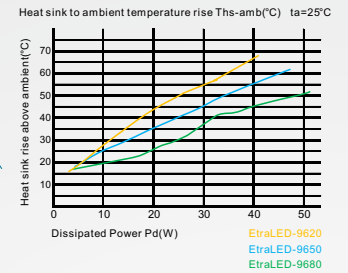
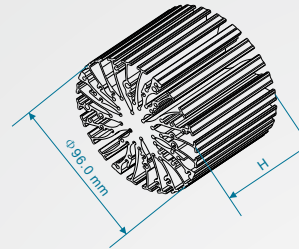
EtraLED-85

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 38.0W
- TR: 1.30~2.00°C/W



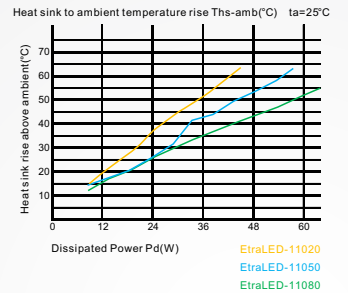
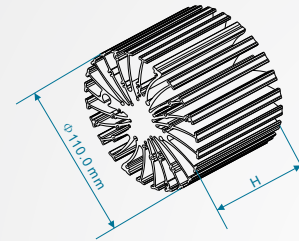
EtraLED-96

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 49.2W
- TR: 0.92~1.80°C/W



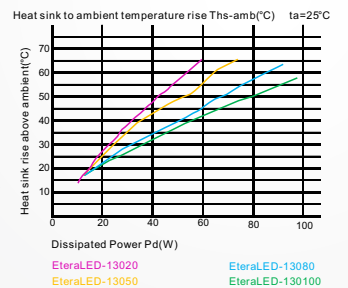
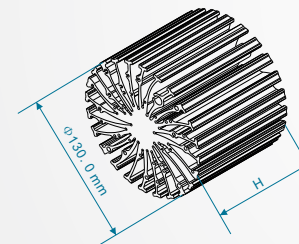
EtraLED-110

- Size: H20/50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 57.0W
- TR: 0.90~1.50°C/W



EtraLED-130

- Size: H20/50/80/100mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 76.2W
- TR: 0.65~1.10°C/W



GooLED coolers

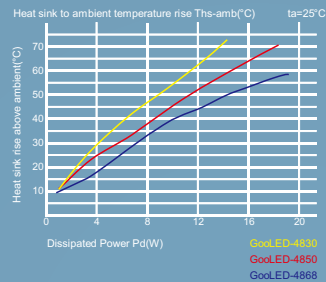
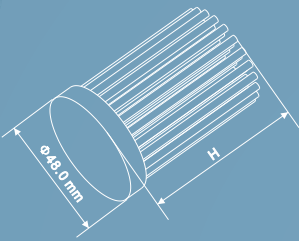
Compatible with more than 20 COB brands.
Covering almost 100% of modules

With 15% higher efficiency in heat dissipation than normal star heatsinks

Use AL1070 material by 30% lighter weight with high efficient heat dissipation

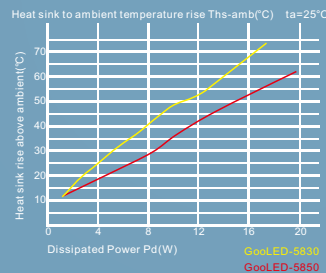
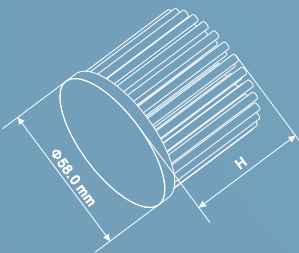
GooLED-48

- Size: H30/50/68mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 13.5W
- TR: 3.70~5.60°C/W



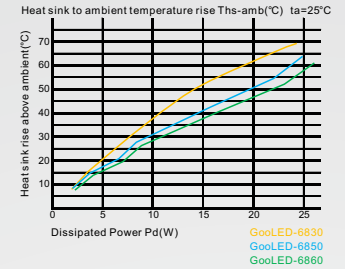
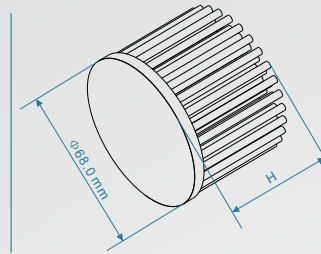
GooLED-58

- Size: H30/50mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 15.0W
- TR: 3.30~4.50°C/W



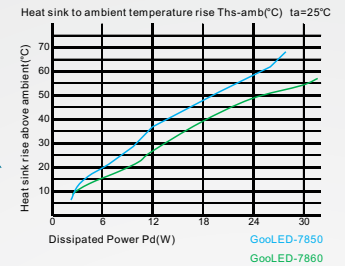
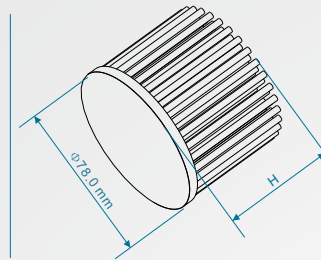
GooLED-68

- Size: H30/50/60mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 20.0W
- TR: 2.50~3.50°C/W



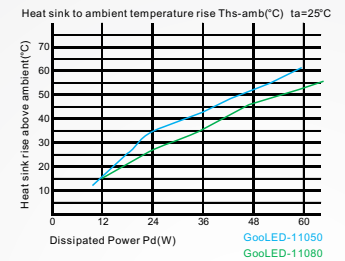
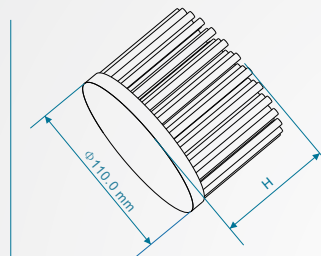
GooLED-78

- Size: H50/60mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 24.0W
- TR: 2.10~2.70°C/W



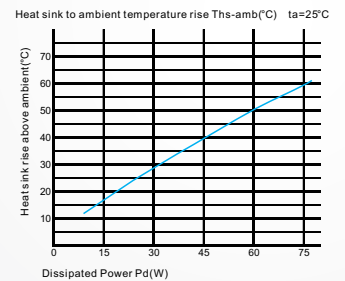
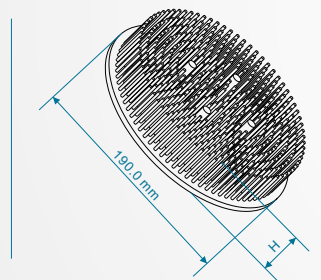
GooLED-110

- Size: H50/80mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 50.5W
- TR: 0.92~1.30°C/W



GooLED-190

- Size: H37mm
- Material: AL1070
- Finish: Black/Clear Anodized
- TW(max): 60.0W
- TR: 0.83°C/W



SimpoLED coolers

Screw holes can be drilled on the bottom and side

Customized holes

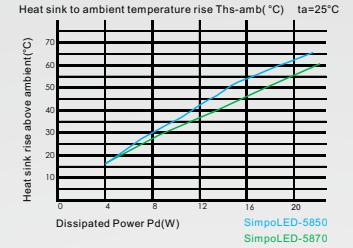
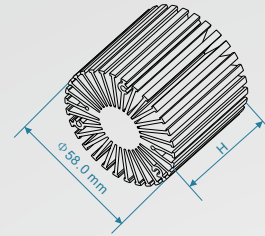
Fan, drivers and others can be installed on top if needed

AL6063-T5 material

Wide range for thermal power, Min 12w, Max 120w

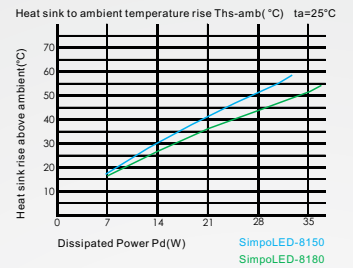
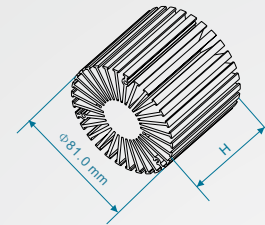
SimpoLED-58

- Size: H50/70mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 15.5W
- TR: 2.90~3.70°C/W



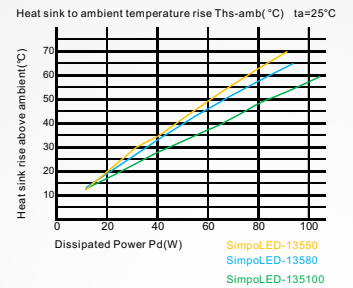
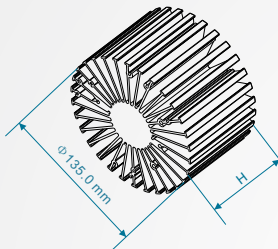
SimpoLED-81

- Size: H50/80mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 31.2W
- TR: 1.60~1.90°C/W



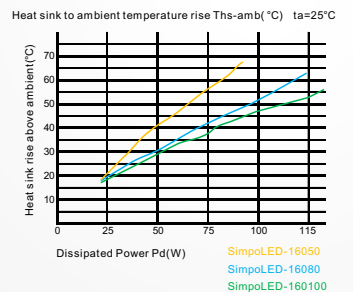
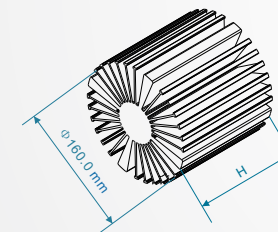
SimpoLED-135

- Size: H50/80/100mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 84.0W
- TR: 0.71~0.83°C/W

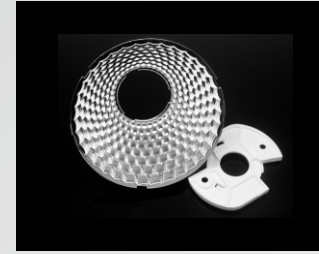


SimpoLED-160

- Size: H50/100/150mm
- Material: AL6063-T5
- Finish: Black/Clear Anodized
- TW(max): 120.0W
- TR: 0.50~0.70°C/W



Reflector Series



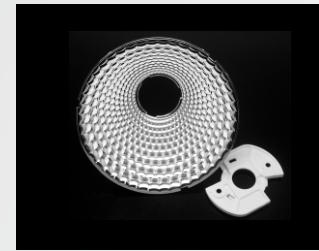
JTK69xx-RE-K

- Brand: Mingfa Tech
- Model: JTK69xx-RE-K
- Dia: 69.0mm
- Height: 36.1mm
- Beam Angle: 24°40°60°
- Material: PC



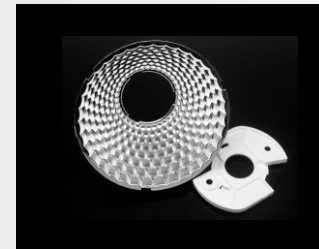
JTK75xx-RE-K

- Brand: Mingfa Tech
- Model: JTK75xx-RE-K
- Dia: 75.0mm
- Height: 44.4mm
- Beam Angle: 24°40°60°
- Material: PC



JTK85xx-RE-K

- Brand: Mingfa Tech
- Model: JTK85xx-RE-K
- Dia: 85.0mm
- Height: 44.4mm
- Beam Angle: 24°40°60°
- Material: PC



JTK92xx-RE-K

- Brand: Mingfa Tech
- Model: JTK92xx-RE-K
- Dia: 92.0mm
- Height: 44.3mm
- Beam Angle: 24°40°60°
- Material: PC

Reflector series are compatible with the branded LED module types listed as below:

- Tridonic: S17 Series.
- Sharp: 2024 Series.
- Osram: P13, S13, S19 Series.
- Samsung: S13, S21 Series.
- Luminus: CXM-14, CXM-18 Series.
- Seoul: ZC12, ZC18, ZC25, ZC40 Series.
- LumiLEDs: 1204, 1205, 1208, 1211 Series.
- Bridgelux: Vero10, Vero13; V15, V18 Series
- CREE: CXA15xx, CXA18xx, CXA25xx Series.
- Edison: HM05-18D, SL09, HM1630, HM40D, SL30 Series
- Citizen: CLL030, CLL630, CLL730, CLL720, CLL163, CLL173 Series.
- Lustrous: CCN09F-30F, LL604-620F, LL708-730F, CCH14-18 Series.

POWER Supply

5W~10W

High PF Constant Current
Size: Ro1 (Φ55.0*h24.0mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FLD08-12070H	220-240	700	±5%	8-13	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FLD08-16050H	220-240	500	±5%	8-16	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FLD08-23035H	220-240	350	±5%	8-23	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FLD08-30025H	220-240	250	±5%	14-30	>0.9	80%-85%	IP20	CE/CB/SA/TUV

8W~12W

High PF Constant Current
Size: Ro2 (Φ65.0*h24.0mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FALP12-17070	100-240	700	±5%	8-17	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP12-24050	100-240	500	±5%	8-24	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP12-34035	100-240	350	±5%	14-34	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP12-40025	100-240	250	±5%	20-43	>0.9	80%-85%	IP20	CE/CB/SA/TUV

15W~20W

High PF Constant Current
Size: Ro3 (Φ75.0*h26.0mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FALP18-26070	100-240	700	±5%	15-26	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP18-36050	100-240	500	±5%	20-36	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP18-40035	100-240	350	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP18-65030	100-240	300	±5%	45-65	>0.9	80%-85%	IP20	CE/CB/SA/TUV

POWER Supply

30W~40W

High PF Constant Current
Size: Ro5 (Φ95.0*h29.0mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FALD30-40080H	220-240	800	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALD30-32090H	220-240	900	±5%	20-32	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALD30-29105H	220-240	1050	±5%	20-32	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALD40-40105H	220-240	1050	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV

2W~15W; 3W~20W

Triac Dimmable
Size: Rt1 (79.8*38.2*21.0mm)
Rt2 (82.8*53.8*24.0mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FAL-D1542	100-132	100-300	±5%	18-42	>0.9	80%-85%	IP20	Triac Dimmable
FAL-D2042	100-132	150-400	±5%	18-42	>0.9	80%-85%	IP20	Triac Dimmable
FAL-D4042	100-132	450-800	±5%	18-42	>0.9	80%-85%	IP20	Triac Dimmable

40W~60W

High PF Constant Current
Size: Rt3 (118.0*69.5*32.5mm)



Model	Input Voltage (V)	Output current (mA)	Tol.	Output Voltage (V)	PF	Effi.	IP	Approval
FALP50-40105	100-240	1050	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP50-40110	100-240	1100	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP50-40120	100-240	1200	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP50-40140	100-240	1400	±5%	20-40	>0.9	80%-85%	IP20	CE/CB/SA/TUV
FALP50-40105C	220-240	1050	±5%	20-40	>0.9	80%-85%	IP20	CCC
FALP50-40110C	220-240	1100	±5%	20-40	>0.9	80%-85%	IP20	CCC
FALP50-40120C	220-240	1200	±5%	20-40	>0.9	80%-85%	IP20	CCC
FALP50-40140C	220-240	1400	±5%	20-40	>0.9	80%-85%	IP20	CCC