



QoolPCB – A Fixed Cost Plan For PCB Level Cooling

Advanced Thermal Solutions, Inc., (ATS) is proud to roll out a new and first-of-its-kind plan that offers a cooling solution for all components on the board at a fixed, competitive cost. The FCBS plan eliminates the customer's cost for design, selection, tooling, samples, verification and supply chain management, since they are all included in the plan.

Plan Offering

Item	Task	Description
1	Thermal Analysis	ATS will perform a thermal analysis of each PCB and specify the appropriate heat sink (see table below).
2	Tooling-Heat Sink	ATS will assume all tooling charges for any custom heat sinks that may be required.
3	Tooling-Clips	ATS will assume all tooling charges for any custom Frame and Spring clips that may be required.
4	Testing	ATS will perform all testing at its facilities to verify design and report its results to the customer.
5	Thermal Lab	ATS will make its Thermal Characterization Lab available to the customer for its thermal analysis and verification.
6	Samples	ATS will provide all samples for initial testing of the PCB.

Plan Cost per PCB**

	FCBS-10	FCBS-20	FCBS-30
No. HS on a PCB	10 or less	20 or less	greater than 20
Total Cost/PCB	\$50.00	\$75.00	\$100.00
Average Cost/HS	\$5.00	\$3.75	\$2.50*

*based on 40 heat sinks on PCB. ** the plan is fixed as shown, add 15% if copper heat sinks are required

Customer's Obligations

Item	Task	Description
1	Board Information	Customer supplies PCB layout (in Solidworks or IGES files), component power dissipation and component specs.
2	Engineering Contact (EC)	Customer will assign a point of contact to work with ATS engineers.
3	PCB Sample	Customer will provide ATS with a PCB sample as soon as one is available.
4	Refundable Retainer (per PCB)	A one time refundable \$5,000.00 deposit per PCB is required to start the process. The fee is refunded when heat sinks for 500 PCBs are ordered in a period of 18 months from the issuance of the PO for the deposit.
5	No. of Heat Sinks	Customer's Engineering Contact (EC) will determine and approve the required number of heat sinks per board.

How Can ATS Offer Such an Exciting Plan?

Product Portfolio – ATS has made available the broadest heat sink product offering for electronics components – in excess of 3,000 unique designs with the highest thermal performance in the industry.

Automation – ATS has invested extensively in the past three years to automate its design and fabrication processes.

Technical Excellence – ATS' technical expertise is second to none in the industry, as a result, we develop solutions that are **right-the-first-time** with the **least-time-to-solution.**