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Dynaco Introduces Microwave Rigid-Flex Capability to Market

Tempe, AZ – April 2006: Dynaco Corp., a leading fabricator of high reliability rigid-flex, flex and rigid printed circuit boards and assemblies for the military/aerospace market, has announced that it has successfully developed an ability to produce multilayer microwave rigid-flex printed circuit board constructions, utilizing the latest advancements in high performance material systems.

By combining high-frequency circuit materials, such as those based on PTFE or blended thermoset laminates, with advanced Liquid Crystal Polymer (LCP) flexible high frequency materials, Dynaco can now offer the industry the ability to manufacture microwave rigid-flex constructions. This innovation allows design engineers to achieve significant microwave performance advantages at a lower total cost compared to more traditional approaches.

Dynaco has demonstrated the ability to reliably manufacture up to 20 layer designs, in all-LCP or “hybrid” constructions, which effectively combines the electrical and mechanical performance advantages of different high performance material systems in multilayer rigid, flex or rigid-flex configurations. Through the development of patent pending process technology, Dynaco has successfully replicated robust multilayer lamination and plating processes, which is evident in the third party reliability testing the company has completed. Beyond passing standard multiple thermal shock testing, Dynaco multilayer LCP parts have passed up to 1500 cycle Interconnect Stress Tests (IST), both with and without preconditioning.

“We have been pursuing defined development programs, both independently and together with our customers to further detail the performance and reliability achievements that are possible with LCP materials,” said Kevin Walker, Vice President of Sales and Marketing for Dynaco. “Dynaco is apparently far ahead of nearly every other fabricator in the market and we are optimistic that we can stay there with our solid commitment to this new technology. The performance and cost benefits have the potential to radically change certain markets and applications. Liquid Crystal Polymer materials offer excellent electrical performance at microwave frequencies, thin dielectric thicknesses, very low moisture absorption and good flexibility. By applying our innovative process technology to new material systems such as this one, traditional approaches to multilayer microwave circuit construction can now be enhanced to improve interconnect structures. Its disruptive technology and we are gratified to be one of the companies that are leading the way forward.”

About Dynaco Corp.

Dynaco Corp. fabricates high reliability printed circuit boards and assemblies for the military/aerospace market. The company, which specializes in the fabrication of challenging rigid-flex and flex circuit constructions, also produces rigid circuit boards and specialized circuit boards requiring high



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performance substrates. Dynaco rigid-flex printed circuit boards are used in a wide variety of military and aerospace applications where a premium is placed on performance, long-term reliability, reduced space and weight savings over more conventional interconnect technology. Dynaco is also certified as a Small Disadvantaged Business (SDB) by the US Small Business Administration (SBA).

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