



Advanced Technology Composite Structures and Enclosures

DESCRIPTION

Today's military electronics enclosures have competing demands including Thermal management, Weight saving, Space, Size and EMI shielding.

TE Connectivity is a global provider of high performance polymers and composite solutions for harsh, high temperature and corrosive environments.

APPLICATIONS

We offer application specific composite solutions for:

- Unmanned and commercial aircraft structure and enclosures
- Soldier systems
- Portable electronics
- Fully integrated composite and electronic solutions for all ADM applications

KEY ADVANTAGES

Our semi-crystalline polymer/carbon-composite enclosures offer:

- Weight savings: Over 50% lighter than 6061 aluminum
- Cost savings
- Extreme mechanical strength
- Corrosion resistance
- EMI absorption for RF applications
- Increased available space
- Significantly reduced resonance around electronics
- Can be used as an insulator or conductor with strategically placed inserts

Our enclosures are available with air cooling as well as molded in heat pipes, heatsinks, and heatspreaders.





Advanced Technology Embedded Antennas



DESCRIPTION

Today's laptops and smartphones rely on TE Connectivity's embedded antennas for enhanced range, multi-band operation and ergonomic, damage-resistant designs.

We are a pioneer of customized embedded antenna solutions to accommodate the wireless industry's move towards increased complexity and demand for miniaturization combined with the need to integrate a multi-radio environment into one component.

APPLICATIONS

- Embedded antenna arrays (GPS, GSM, WiFi, 3G/4G)
- Tactical Radios, Portable Electronics
- Smart Munitions, Missiles
- body Worn Antennas

KEY ADVANTAGES

Our embedded Molded Interconnect Antennas provide:

- Improved range, controlled beam pattern
- Antenna integration onto radio enclosure
- Multiple antennas on a single substrate
- Low observable, robust, ergonomic designs
- Increased design flexibility: wide range of 3D antenna shapes



For more information:
James O'Keeffe: 1 408 799 6049
james.okeeffe@te.com

www.te.com/ADM

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