

TECHNICAL BULLETIN 311

Made from natural graphite, eGRAF® SPREADERSHIELD™ products function as both a passive heat *spreader* and heat *shield*. SPREADERSHIELD material is offered in a variety of in-plane thermal conductivities, from 300 to 500 W/m-K, and can be die-cut, press-formed, or laminated with plastics, metals, adhesives and other materials. Every SPREADERSHIELD part is customized to meet specific application needs and improve thermal performance within a limited space and weight.

Typical SPREADERSHIELD EMI Properties

In addition to excellent heat spreading characteristics, eGRAF® SPREADERSHIELD™ products are capable of providing high levels of EMI shielding effectiveness. Typical shielding effectiveness of SPREADERSHIELD™ materials is at least 100 dB from 1 to 6 GHz, as illustrated below.

Shielding effectiveness testing was performed using a Model M07T 7-mm coaxial line, with good correlation to a Model 1500T coaxial line as well as WRI 150 and S-band waveguides.

