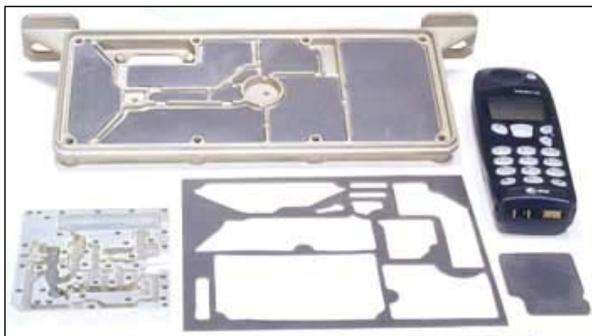


Product Focus — Shielding and Absorbing Materials

High-frequency flexible shielding materials

Laird Technologies has introduced Q-Zorb™, a series of thin, flexible, high-frequency electromagnetic interference (EMI) shielding materials. The materials may be used to reduce Q in shielding cavities, spurious harmonics in electronic housings, V-Sat transceiver noise, cable-conducted radiated noise and EMI in personal computers. They can also be used in wireless local area network and cellular phone applications. Elastomeric-based and loaded with lossy magnetic fillers for broadband EMI reduction, the materials are provided with pressure-sensi-



tive adhesive for easy installation. The materials come in 12 × 12 inch sheets, as well as die-cut components. Thicknesses range from 0.010 to 0.18 inch (0.254 to 4.572 mm). Also available are fire-retardant versions, a variety of magnetic fillers, and custom materials that are optimized at standard commercial frequencies.

Laird Technologies

Circle #200

EMI gaskets for RF grounding applications

W.L. Gore & Associates has introduced a new use for its GORE-SHIELD® surface-mount technology (SMT) EMI gaskets as radio fre-



quency (RF) grounding pads or interconnects. In this use, the gaskets conduct currents of a primary RF signal much the same way a connector conducts RF currents from a printed circuit board (PCB) to a coaxial cable. Applications include situations where an RF signal needs to be sent from one PCB to another, with the two boards sandwiched together, such as where wireless devices need to connect multiple boards. At the same time, the gaskets provide shielding to protect against EMI emissions, a feature not provided by metal spring contacts. Also, because the gaskets are designed with surface mount technology in mind, they can be placed on a PCB in any configuration that will maximize RF performance and minimize cost.

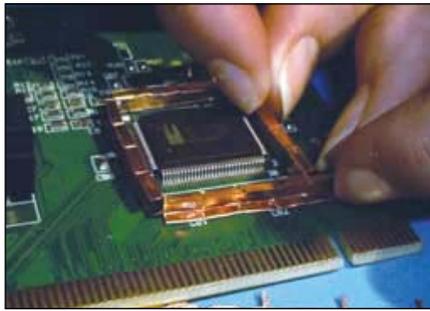
W.L. Gore & Associates

Circle #201

Modular system shielded boxes

Holland Shielding Systems has developed a new easy-to-fit system of shielding strips to shield parts of printed circuit boards at the source. A single strip may easily be turned into a range of boxes, with dimensions increasing by steps of 1/4 inch (6.35 mm). These strips are available in either self-adhesive or solder-pin

format and in widths of 4, 8, 12, 16 or 20 mm, as well as widths to customer specification. The self-adhesive mounting type offers a pressure-sensitive conductive adhesive strip that makes contact “track” on the PCB around the shielded area. A cover can also be fitted on top. The solder-pin mounting type is designed with solder pins of 1 mm wide and about 3 mm long and can be mounted by drilling the PCB.



Holland Shielding Systems BV
Circle #202

Metal spring finger gaskets

Chomerics, a division of the Parker Hannifin Corporation, has introduced metal spring finger gaskets



for electromagnetic interference (EMI) shielding of faceplate interfaces on high-frequency computing and communication systems. The gaskets are specifically designed to meet the

IEEE 1101.10 EMC Front Panel reference design. They are provided in two profiles, one available in both beryllium copper and stainless steel and the other offered exclusively in stainless steel. The gaskets are available in standard 3U and 6U CompactPCI lengths and in easily trimmed 16-inch strips. The gasket strips are comprised of individual fingers that provide continuous contact with adjoining hardware, even along irregular edge surfaces. They are designed for quick, easy mounting on, and simple removal from, faceplate edges. Their low-closure force design minimizes loading pressure for smoother card installation and removal.

Chomerics
Circle #203

EMI shield for automated board-level installation

Boldt Metronics, a business unit of BMI, offers the Boldt Shield II™, a standard off-the-shelf two-part EMI shield packaged for automated board-level installation. The shield is designed with a removable lid that provides easy access to inspect or repair electronic components without having to de-solder the shield. The shield is packaged in standard EIA410 tape and real formats for automated surface-mount installation and is offered in a range of sizes.

Boldt Metronics
Circle #204

EMI/RFI shielding gasket brochure

Tech-Etch has released a new brochure offering information on the company's expanded range of standard

Applied

MICROWAVE & WIRELESS

Editorial Preview September 2002

On Our Cover — Product focus: MMICs & Semiconductors

New MMIC and semiconductor products releases for the wireless industry are highlighted in this special product roundup section.

Featured Articles:

- *“Wideband Printed Dipole Antenna for Multiple Wireless Services”*
In this invited paper, Jeong Il Kim, Byung Moo Lee and Young Joong Yoon present a coax-fed printed fat dipole antenna backed by a ground plate and intended for use in various wireless applications.
- *“A Diplexer Using Meander Lines”*
Peter Nordquist of MicroSignals describes the design process for a diplexer that covers the 400 to 700 and 950 to 2150 MHz frequency bands and is intended for use in LDMS systems.
- *“High-Speed Data in EGPRS: A Physical Layer Challenge”*
Yuval Dorfan of Comsys Communications & Signal Processing Ltd. discusses technical issues for enhanced general packet radio service, as well as implementation trade-offs.

Bonus Distribution

Military Electronics Conference and Show, September 24-25 in Baltimore, MD
European Microwave Week, September 23-27 in Milan, Italy



profiles and sizes for its durable nickel-plated metalized fabric over elastomer gaskets. These gaskets are provided with easy-to-install stick-on mounting and come in many sizes for profiles including square, rectangular, flat, D, P, C-fold, knife-edge and dome. The gaskets deliver shielding effectiveness at greater than 100 dB attenuation levels. The

design, using nickel plating over a highly conductive copper substrate, provides the excellent electrical characteristics necessary for shielding. The corrosion-resistant plating has superior galvanic compatibility, which increases shielding longevity. The gaskets are highly flexible and provide continuous contact between mating surfaces. Custom gasket designs are also available.

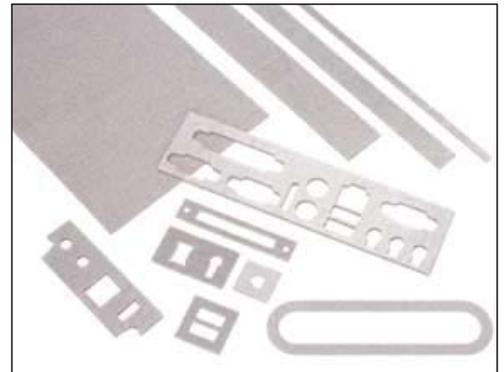
Tech-Etch
Circle #205

UL94 VO-rated conductive foam gaskets

Laird Technologies offers a line of UL94 VO-rated conductive foam gaskets. The X, Y and Z axis conductiv-

ity of these gaskets provides the enhanced EMI shielding effectiveness required by the microprocessor speeds of current computer and telecommunications equipment. Designed for low-cycling, non-shear applications such as input/output shielding, this material features

improved Z axis conductivity for shielding effectiveness to more than 90 dB across a wide range of frequencies. Compression ranges are up to 60 percent



of the original uncompressed height. Standard back-plane and connector configurations are offered, as well as rectangular strips for static perimeter gasketing applications and custom die-cut designs. The conductive foam is available in standard thicknesses of 1, 1.5, 2 and 3.2 mm and in widths down to 3.2 mm. Custom thicknesses and widths are also available.

Laird Technologies
Circle #206

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