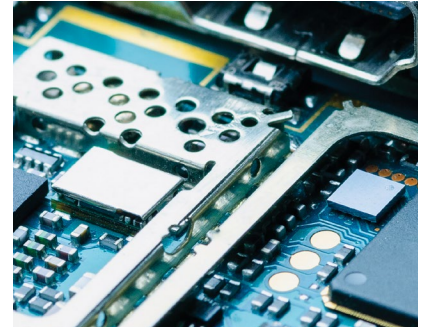


Board Level Shielding (BLS) Components



Customer Value Proposition

Parker Chomerics Board Level Shielding (BLS) and stamped metal components are the optimal solution for reducing or limiting the effect of electromagnetic interference (EMI) on printed circuit boards.

Developed based on decades of expertise in EMI and RF shielding, precision metal forming, and state-of-the-art manufacturing practices, Parker Chomerics BLS and stamped metal components are designed and manufactured to help provide isolation of board level components, minimize crosstalk, and reduce EMI susceptibility.

Parker Chomerics is a leading producer of innovative technologies and services, providing global solutions for:

- EMI and thermal interface material development
- Application and engineering support
- EMI/RF emissions testing
- Fast and cost-effective prototyping

Contact Information

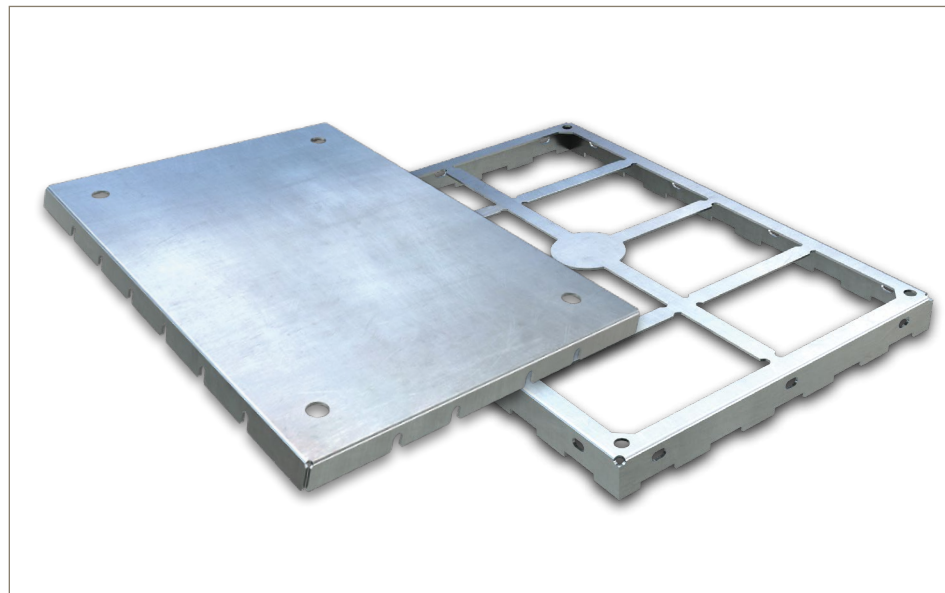
Parker Hannifin Corporation
Chomerics Division
77 Dragon Court
Woburn, MA 01801

phone 781 935 4850

fax 781 933 4318

chomailbox@parker.com

www.parker.com/chomerics



Features and Benefits

- Highly customizable
- Economical
- High volume production
- Design flexibility
- Excellent high frequency EMI/RF shielding
- High speed assembly integration

Typical Applications

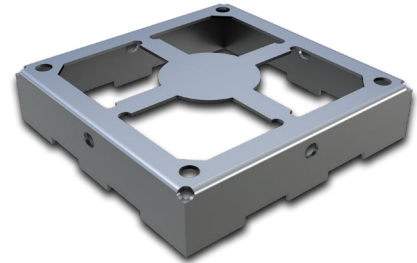
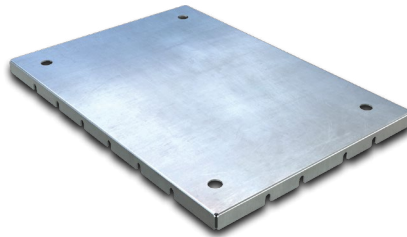
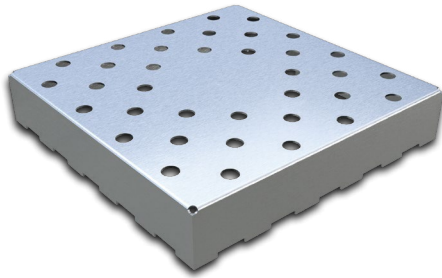
- Connectivity and Wi-Fi equipment
- Smart home and smart devices
- Laptops, tablets, and smart phones
- Streaming media players
- Telecommunications and 5G infrastructure
- Automotive electronics and control modules



ENGINEERING YOUR SUCCESS.

Board Level Shielding (BLS) Components

As each application is unique, Parker Chomerics BLS components are designed, prototyped, and manufactured based on exact application-specific requirements.



Design options can include **one-piece, two-piece and multicavity** configurations, while also incorporating precise mounting methods such as **surface mount technology (SMT)**. RF shielding components are manufactured using either a **stamping/forming** or a **drawing** process based on specific design criteria and end application needs. Board level shields can also integrate unique design features including, but not limited to, **ventilation holes, complex geometries, embossing, and orientation markings**.

Parker Chomerics BLS products are available in several base materials as well as plating options, including:

- **Tin-Plated Cold Rolled Steel**
- **Nickel Silver**
- **Aluminum**
- **Stainless Steel**

Other materials and plating options are available on request.

Component Integration

Board level shields are often a single part of a complex assembly and must be seamlessly integrated into full PCB builds. They can be integrated with all kinds of products for ease of assembly and reduced supply chain

and logistics concerns. Examples of integration include:

- Thermal gap pads
- RF absorbing coatings
- Electrical grounding materials
- Heatsinks

Ordering Information

Table 1 - Single Piece Shield Ordering Information

Part Number	Description	Length (mm)	Width (mm)	Height (mm)	Length (in)	Width (in)	Height (in)
81-03-18228-5020-P	Single Piece Shield	12.70	13.67	2.54	0.500	0.538	0.100
81-03-18229-5020-P		16.51	16.51	3.61	0.650	0.650	0.142
81-03-18230-5020-P		26.21	26.21	5.08	1.032	1.032	0.200
81-03-18231-5020-P		32.00	32.00	5.99	1.260	1.260	0.236
81-03-18232-5020-P		25.40	38.10	5.99	1.000	1.500	0.236
81-03-18233-5020-P		33.68	36.83	5.08	1.326	1.450	0.200
81-03-18234-5020-P		44.37	44.37	9.75	1.747	1.747	0.384
81-03-18235-5020-P		39.60	39.60	7.01	1.559	1.559	0.276
81-03-18236-5020-P		29.36	18.49	7.01	1.156	0.728	0.276
81-03-18237-5020-P		30.51	43.99	3.00	1.201	1.732	0.118

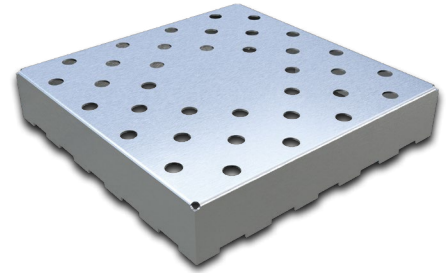
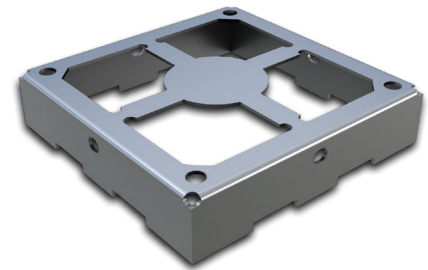


Table 2 - Shield Frames and Covers Ordering Information

Part Number	Description	Length (mm)	Width (mm)	Height (mm)	Length (in)	Width (in)	Height (in)
81-03-18238-5020-P	Shield Frame	12.70	13.67	2.54	0.500	0.538	0.100
81-03-18239-5020-P	Shield Cover						
81-03-18240-5020-P	Shield Frame	16.51	16.51	3.61	0.650	0.650	0.142
81-03-18241-5020-P	Shield Cover						
81-03-18242-5020-P	Shield Frame	26.21	26.21	5.08	1.032	1.032	0.200
81-03-18243-5020-P	Shield Cover						
81-03-18244-5020-P	Shield Frame	32.00	32.00	5.99	1.260	1.260	0.236
81-03-18245-5020-P	Shield Cover						
81-03-18246-5020-P	Shield Frame	25.40	38.10	5.99	1.000	1.500	0.236
81-03-18247-5020-P	Shield Cover						
81-03-18248-5020-P	Shield Frame	33.68	36.83	5.08	1.326	1.450	0.200
81-03-18249-5020-P	Shield Cover						
81-03-18250-5020-P	Shield Frame	44.37	44.37	9.75	1.747	1.747	0.384
81-03-18251-5020-P	Shield Cover						
81-03-18252-5020-P	Shield Frame	39.60	39.60	7.01	1.559	1.559	0.276
81-03-18253-5020-P	Shield Cover						
81-03-18254-5020-P	Shield Frame	29.36	18.49	7.01	1.156	0.728	0.276
81-03-18255-5020-P	Shield Cover						
81-03-18256-5020-P	Shield Frame	30.51	43.99	3.00	1.201	1.732	0.118
81-03-18257-5020-P	Shield Cover						



*All standard board level shielding parts listed on this page are provided with ventilation holes and manufactured from tin-plated cold rolled steel.

To learn more about Parker Chomerics Board Level Shielding and to discuss part design, please contact your Chomerics sales representative, Chomerics Applications Engineering at **781-935-4850**, or **chomailbox@parker.com**.

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