

# LAIRD TECHNOLOGIES EMI Components



RoHS Compliant This product is RoHS compliant.

## LAIRD TECHNOLOGIES BOARD LEVEL SHIELDS

### Standard Surface Mount Shields - One Piece

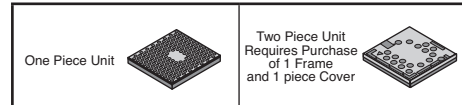
One-piece shields offer six sides of protection, with the sixth side being the board itself. One-piece designs offer economical shielding protection where access to covered components is not necessary.

The One-piece design offers economical shield protection.

No tooling costs associated with one or two piece standard designs

### Standard Surface Mount Shields - Two Piece

Two-piece board level shields offer users the flexibility to inspect or repair shielded components without having to risk board damage by removing the entire shield or incur any tooling costs. Covers snap on and off with ease, which makes repair of the component under the shield quicker and easier.



MOUSER STOCK NO.	Laird Tech Part No.	Surface Area in. (mm)	Piece Type	Dimensions: in. (mm)		Dimensions: mm		Pitch Parts Per Reel	Price Each			
				Max. Overall Dim.	Max. Overall Height	Carrier Tape	Carrier Width		1	10	50	100
<b>For quantities greater than listed, call for quote.</b>												
<b>One Piece</b>												
739-BMIS-105	BMIS-105	1.461 <sup>2</sup> (942.50 <sup>2</sup> )	----	1.500 x 1.000 (38.10 x 25.40)	.236 (6.00)	56	32	250	1.75	1.40	1.29	1.19
<b>Two Piece</b>												
739-BMIS-201-F	BMIS-201-F	.253 <sup>2</sup> (163.10 <sup>2</sup> )	Frame	.538 x .476 (13.66 x 12.10)	.100 (2.54)	24	20	1000	.90	.695	.58	.533
739-BMIS-201-C	BMIS-201-C	.253 <sup>2</sup> (163.10 <sup>2</sup> )	Cover	.538 x .476 (13.66 x 12.10)	.100 (2.54)	--	--	--	.74	.571	.472	.431
739-BMIS-202-F	BMIS-202-F	.402 <sup>2</sup> (259.21 <sup>2</sup> )	Frame	.650 x .650 (16.50 x 16.50)	.142 (3.60)	32	24	700	.86	.791	.748	.727
739-BMIS-202-C	BMIS-202-C	.402 <sup>2</sup> (259.21 <sup>2</sup> )	Cover	.650 x .650 (16.50 x 16.50)	.142 (3.60)	--	--	--	.69	.631	.598	.577
739-BMIS-203-F	BMIS-203-F	1.033 <sup>2</sup> (666.16 <sup>2</sup> )	Frame	1.032 x 1.032 (26.21 x 26.21)	.200 (5.08)	44	32	300	1.13	1.04	.981	.951
739-BMIS-203-C	BMIS-203-C	1.033 <sup>2</sup> (666.16 <sup>2</sup> )	Cover	1.032 x 1.032 (26.21 x 26.21)	.200 (5.08)	--	--	--	.57	.522	.497	.484
739-BMIS-205-F	BMIS-205-F	1.461 <sup>2</sup> (942.50 <sup>2</sup> )	Frame	1.500 x 1.000 (38.10 x 25.40)	.236 (6.00)	56	32	250	1.59	1.46	1.36	1.33
739-BMIS-205-C	BMIS-205-C	1.461 <sup>2</sup> (942.50 <sup>2</sup> )	Cover	1.500 x 1.000 (38.10 x 25.40)	.236 (6.00)	--	--	--	1.06	.98	.92	.88
739-BMIS-206-F	BMIS-206-F	1.879 <sup>2</sup> (1212.39 <sup>2</sup> )	Frame	1.450 x 1.326 (36.83 x 33.68)	.200 (5.08)	56	40	300	1.59	1.46	1.38	1.33
739-BMIS-206-C	BMIS-206-C	1.879 <sup>2</sup> (1212.39 <sup>2</sup> )	Cover	1.450 x 1.326 (36.83 x 33.68)	.200 (5.08)	--	--	--	1.50	1.15	1.05	.958
739-BMIS-207-F	BMIS-207-F	2.997 <sup>2</sup> (1933.36 <sup>2</sup> )	Frame	1.747 x 1.747 (44.37 x 44.37)	.384 (9.75)	56	56	120	2.16	1.72	1.59	1.48
739-BMIS-207-C	BMIS-207-C	2.997 <sup>2</sup> (1933.36 <sup>2</sup> )	Cover	1.747 x 1.747 (44.37 x 44.37)	.384 (9.75)	--	--	--	2.00	1.84	1.72	1.66

## LAIRD TECHNOLOGIES MICROWAVE ABSORBERS

### Q-Zorb™ RFSW Surface Wave

Q-Zorb RFSW surface wave absorbers are thin, magnetically loaded elastomeric sheets designed to provide attenuation at high angles of incidence for surface wave attenuation. The are nominally manufactured in the thickness range of 0.010 in. to 0.125 in. (0.3mm to 3.2mm).

#### Features:

- The materials available are in UL fire retardant versions for use in commercial devices.
- Several magnetic fillers are available carbonyl iron powder is standard, but other materials such as iron silicide (FeSi) are used for corrosion resistant applications.
- Excellent performance at frequencies between 500MHz and 40GHz.

MOUSER STOCK NO.	Laird Tech Part No.	Description	Optimum Frequency Range (GHz)	Dimensions: in. (mm)			Price Each
				Height	Width	Thickness	
739-02240	02240	Q-Zorb Surface Wave Fire Retardant PSA	8-12	24.00 (609.60)	24.00 (609.60)	0.060 (1.50)	343.21
739-02242	02242	Q-Zorb Surface Wave Fire Retardant PSA	2-4	24.00 (609.60)	24.00 (609.60)	0.125 (3.175)	439.49

### Microwave Absorbing Foam

Microwave absorbing foam is commonly used around antennas and wireless devices to provide isolation or side lobe reduction. It can be die-cut into components for EMI reduction inside microwave cavities and is used to manufacture antenna hats and test boxes. It can be encapsulated into a textile cover for use outdoors and fabricated into blankets, covers and over components.

### RFRET - Reticulated Foam Absorbers

RFRET is a urethane-based reticulated foam absorber. RFRET is offered with a graded carbon coating providing excellent broadband reflectivity reduction. RFRET with constant carbon loading provides excellent insertion loss. RFRET is useful for antenna sidelobe reduction and pattern enhancement.

### RFLS - Lossy Foam Absorbers

RFLS is a single layer "lossy" sheet produced by dipping lightweight open-celled urethane foam into a resistive solution. The end product is a uniform lightweight, loaded sheet material with a specified insertion loss at a given frequency. RFLS offers the lowest cost in microwave absorber products.

#### Features:

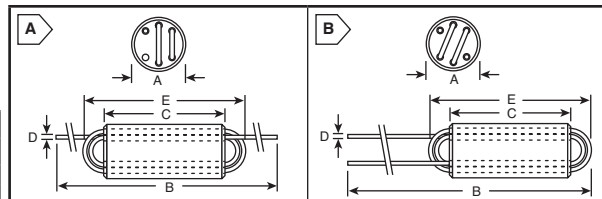
- Typical applications: antennas, amplifiers, oscillators, computer housings and wireless equipment
- Excellent performance at low frequencies (> 100 MHz)
- Lowers the noise or cavity Q in microwave components
- Can be supplied with PSA backing

MOUSER STOCK NO.	Laird Tech Part No.	Description	Dimensions: in. (mm)			Price Each			
			Height	Width	Length	1	5	10	50
739-04001	04001	Reticulated Foam	24.00 (609.60)	24.00 (609.60)	0.50 (1.27)	113.63	104.16	101.01	97.85
739-05099	05099	Lossy Foam, with PSA	24.00 (609.60)	24.00 (609.60)	0.125 (3.18)	95.75	79.79	66.49	61.70
739-05102	05102	Lossy Foam, with PSA	24.00 (609.60)	24.00 (609.60)	0.250 (6.35)	61.15	56.05	54.36	52.65

## MULTIPLE TURN AXIAL LEAD FERRITE BEAD/CORES - DIFFERENTIAL MODE

For quantities greater than listed, call for quote.

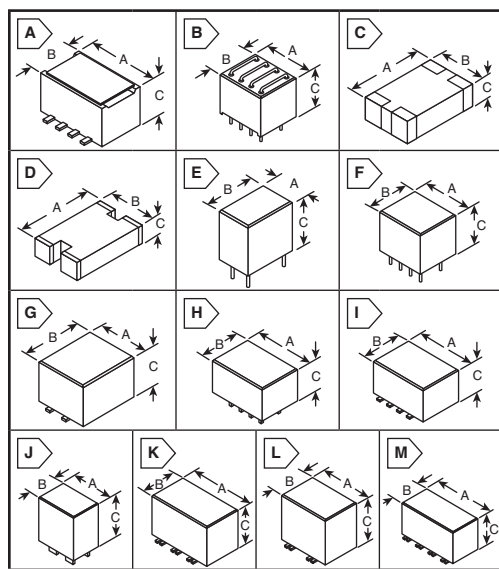
MOUSER STOCK NO.	Steward Part No.	Fig.	Impedance @ 100MHz (Ω)	Rated Current	Number of Turns	Price Each			
						1	10	50	100
875-28C0236-0BW-10	28C0236-0BW-10	A	835	7	2.5	.46	.392	.337	.303
875-28C0236-0EW-10	28C0236-0EW-10	B	998	7	3.0	.46	.392	.337	.303



## DIFFERENTIAL MODE FERRITE EMI FILTERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Steward Part No.	Fig.	Impedance @ 100MHz (Ω)	Rated Current	Dimensions: mm			Price Each			
					A	B	C	1	10	50	100
875-29F0418-1SR-10	29F0418-1SR-10	A	119	6	6.10	4.50	4.19	2.39	2.07	1.91	1.59
875-29F0430-2SR-10	29F0430-2SR-10	A	200	9	10.87	10.87	6.35	2.74	2.37	2.20	1.29
875-29F0428-0T0-10	29F0428-0T0-10	B	342	10	10.88	10.88	10.57	2.08	1.72	1.49	1.19
875-29F0429-0T0-10	29F0429-0T0-10	B	285	10	10.88	5.49	10.44	1.57	1.32	1.14	.908



## COMMON MODE CHIP BEAD - HIGH CURRENT

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Steward Part No.	Fig.	Impedance @ 100MHz (Ω)	Rated Current	Dimensions: mm	Price Each					
						1	10	50	100		
875-CM1812X330R-10	CM1812X330R-10	C	33	10	4.57	3.05	1.60	.85	.803	.743	.563
875-CM3312R111R-10	CM3312R111R-10	C	110	5	8.50	3.05	2.36	.62	.487	.434	.40
875-CM3322U610R-10	CM3322U610R-10	D	61	7	8.50	5.60	2.10	1.19	1.05	.876	.701

## HIGH CURRENT COMMON MODE CHOKE ARRAYS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Steward Part No.	Fig.	Impedance @ 100MHz (Ω)	Rated Current	Dimensions: mm			Price Each			
					A	B	C	1	10	50	100
875-CM2545X171B-10	CM2545X171B-10	E	170	10	6.3	11.38	9.32	1.29	1.06	.924	.828
875-CM4545Z131B-10	CM4545Z131B-10	F	130	10	11.38	11.38	9.32	1.51	1.25	1.08	.86
875-CM3440Z171R-10	CM3440Z171R-10	G	170	20	8.51	10.03	9.32	1.66	1.28	1.11	.946
875-CM5740Z171B-10	CM5740Z171B-10	H	170	20	14.48	10.03	9.32	1.94	1.62	1.45	1.29
875-CM5740Z171R-10	CM5740Z171R-10	I	170	20	14.48	10.03	9.32	2.71	2.10	1.83	1.70
875-CM5441Z101B-10	CM5441Z101B-10	J	100	30	13.72	10.41	10.52	2.80	2.33	2.00	1.09
875-CM5441Z161B-10	CM5441Z161B-10	J	160	30	13.72	10.41	10.52	2.93	2.45	2.10	1.30
875-CM4732V301R-10	CM4732V301R-10	K	300	8	11.94	8.13	9.45	3.92	3.04	2.64	2.39

## COMMON MODE EMI FILTER ARRAYS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Steward Part No.	Fig.	Impedance @ 100MHz (Ω)	Rated Current	Dimensions: mm	Price Each					
						1	10	50	100		
875-CM2722R201R-10	CM2722R201R-10	L	200	5	6.99	5.72	9.53	1.99	1.72	1.59	1.35
875-CM3822R201R-10	CM3822R201R-10	K	200	5	9.78	5.72	7.62	2.29	1.99	1.83	1.11
875-CM5022R151R-10	CM5022R151R-10	M	150	5	12.57	5.72	7.62	2.08	1.81	1.67	1.10
875-CM5022R201R-10	CM5022R201R-10	M	200	5	12.57	5.72	7.62	2.69	2.34	2.16	1.46
875-CM5022R800R-10	CM5022R800R-10	M	80	5	12.57	5.72	7.62	1.92	1.67	1.54	1.02