



Setting the **Standard** for **Shielding**.



» Franchised Distributor

MS Board Level Shielding

Standard Drawn EMI/RFI Shields

Seamless Protective Cages.


Save Time & Costs!
with largest selection available
STANDARD DRAWN SHIELDS



MS On-Board | Catalog 2018 | English



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www.masach.com



Setting the Standard for Shielding.



Masach brings twenty five years of know-how and expertise into every standard shield produced. Our ever-growing selection of standard EMI/RFI shields is the largest in the industry, saving our customers precious time and money while catering to the electronic industry's growing high frequency and RF applications. With emphasis on technology and design, Masach drawn EMI/RFI shields boast top performance across the metrics, featuring a seamless protective cage, robust construction, optimal planarity and two-piece shield design.

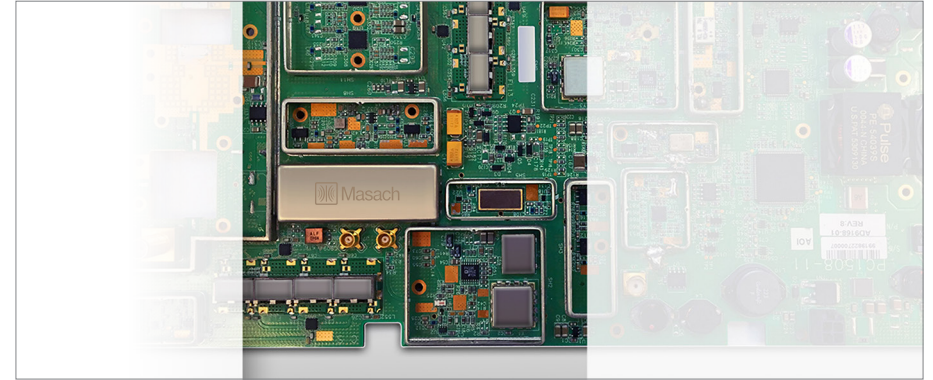


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Whatever your EMI/RFI challenge..



Introduction



Masach specializes in board level EMI/RFI shielding design and production for small, medium and large scale runs. Founded in 1994, Masach is a globally recognized and leading supplier of some of the world's largest electronic companies, driven by highest quality customer service with uncompromised product performance.

Every step of the production cycle, from raw materials and design to packaging and shipping, is meticulously executed under one roof leveraging dedicated hydraulic presses, cutting-edge tool room assemblies, forming operations and more.

Masach utilizes the latest laser technology to deliver most advanced 3D cutting of formed or bent shields made of thin gage materials, CNC punching and more. We remain committed to meet the needs of every industry – from telecommunications and network equipment to military and medical – with the right board level EMI/RFI shielding solution for every challenge.

Hermetically Sealed EMI/RFI Shields.



High Performance EMI/RFI Shields

Exclusive, Seamless EMI/RFI shields
for a higher level of protection

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A higher level of protection



EMI/RFI engineers prefer hermetically sealed shields at high frequencies due their superior performance over time. Designed for highest shielding performance leveraging a unique hermetic design and fabrication process, Masach seamless protective cages are in a class of their own.

Most conventional shields are produced by bending the frames and covers, leaving slits for dust and interference. Masach's unique fabrication process utilizes drawn frames and snap on covers to produce a seamless, more hermetic shield that is as durable as it is effective.

Featuring a convenient two-piece design, our shields enable to inspect and repair shielded components without having to remove the entire shield. Masach shields are known for their planarity, offering optimal yield of reflow soldering for even better overall performance. Our ever-growing selection of EMI/RFI hermetically sealed shields are suitable to small, medium and large-scale runs.

Seamless Protective Cage.

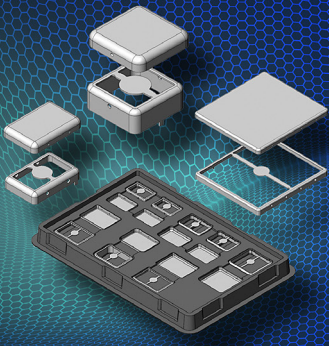


Features & Benefits



- **Seamless Protective Cage** for higher shielding effectiveness
- **Optimal Planarity** for higher yield on reflow soldering
- **Solid Construction** to resist dents and warps
- **Two-piece Shield Design** enables to repair components without removing the shield, saving time and reducing repair damage

Largest Library of Two-piece Shields.



Comprehensive Library of Two-piece EMI/RFI Shields

Extensive range of Drawn EMI/RFI shields from Masach, boosts flexibility


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Enjoy our extensive range of drawn shields for utmost flexibility in design.



Masach offers the largest selection of standard drawn EMI/RFI shields in the electronics industry. Our ever-growing range of sizes delivers more flexibility in surface mount configurations where interference may occur or is identified during the board design phase. The highly reliable two-piece design (frame and cover) accommodates virtually any surface mount application.

Fast and Economical Approach.



Fast and Economical EMI/RFI Shields

Off-the shelf, Fully SMD Compatible suitable for all stages of production

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Shorter engineering design time, lower product cost and quicker time to market.



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Masach standard shields saves on custom design costs, doing away with the need to produce expensive prototypes for evaluation, as well as significantly reduces delivery times. Our standard drawn EMI/RFI shields consist of tin-plated steel alloys, commonly used for board-level shielding due to their exceptional mechanical formability, environmental compliance, and relative low cost.

Engineers taking part in the board design phase can take advantage of the information concerning all mechanical aspects of Masach shields, conveniently available for download (PDF datasheets and CAD files), from the website product page.

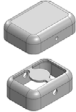





Pick-out your next EMI/RFI Shield »



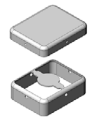








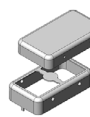

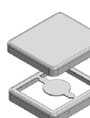
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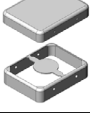

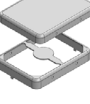
NOTE. All Items in this category are according to our Tinplate Standard Steel: (1) TS275E 8.4/8.4 (2) Electrolytic Tin Plate As Per En 10202:2001 Min Tin Thickness 3.5 um (3) General tolerance (+/-) 0.2mm unless otherwise specified. Non dimensioned items remain Masach Tech Ltd. property.



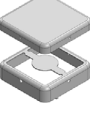
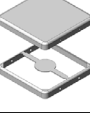
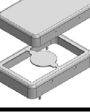

If you cannot find a standard shield according to your requirements, you are welcome to contact us at: info@masach.com and we will make the adjustments or find a suitable solution for your specific needs.





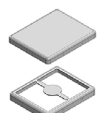
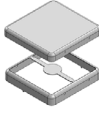
MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS087-10	Drawn EMI/RFI Shield	Tin-Steel	8.7	0.366	6.3	0.366	3	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS093-10	Drawn EMI/RFI Shield	Tin-Steel	9.3	0.366	9.3	0.366	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS110-10	Drawn EMI/RFI Shield	Tin-Steel	11	0.433	11	0.433	2.8	0.110
	Seamless Protective Cage Two-piece Shield SMD							
MS110-20	Drawn EMI/RFI Shield	Tin-Steel	11	0.433	11	0.433	6	0.236
	Seamless Protective Cage Two-piece Shield SMD							
MS130-10	Drawn EMI/RFI Shield	Tin-Steel	13.0	0.512	13.0	0.512	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS135-20	Drawn EMI/RFI Shield	Tin-Steel	13.5	0.531	13.5	0.531	5.1	0.201
	Seamless Protective Cage Two-piece Shield SMD							

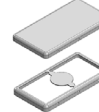
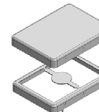
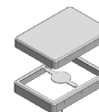
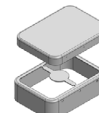

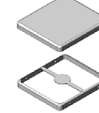
MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS148-10	Drawn EMI/RFI Shield	Tin-Steel	14.8	0.583	8.9	0.350	2	0.079
	Seamless Protective Cage Two-piece Shield SMD							
MS156-10	Drawn EMI/RFI Shield	Tin-Steel	15.6	0.614	10.6	0.417	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS168-10	Drawn EMI/RFI Shield	Tin-Steel	16.8	0.661	13.5	0.531	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS183-10	Drawn EMI/RFI Shield	Tin-Steel	18.3	0.720	10.5	0.413	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS190-10	Drawn EMI/RFI Shield	Tin-Steel	19	0.748	13.9	0.547	2	0.079
	Seamless Protective Cage Two-piece Shield SMD							
MS193-10	Drawn EMI/RFI Shield	Tin-Steel	19.3	0.760	10.5	0.413	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							


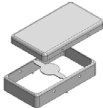
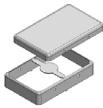
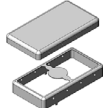
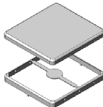

MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS206-10	Drawn EMI/RFI Shield	Tin-Steel	20.6	0.811	17.8	0.701	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS209-10	Drawn EMI/RFI Shield	Tin-Steel	20.9	0.823	15.3	0.602	1.65	0.065
	Seamless Protective Cage Two-piece Shield SMD							
MS209-20	Drawn EMI/RFI Shield	Tin-Steel	20.9	0.823	15.3	0.602	2	0.079
	Seamless Protective Cage Two-piece Shield SMD							
MS210-10	Drawn EMI/RFI Shield	Tin-Steel	21	0.827	12	0.472	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS213-10	Drawn EMI/RFI Shield	Tin-Steel	21.3	0.839	19.9	0.783	2.9	0.114
	Seamless Protective Cage Two-piece Shield SMD							
MS220-10	Drawn EMI/RFI Shield	Tin-Steel	22	0.866	19.3	0.760	3.3	0.130
	Seamless Protective Cage Two-piece Shield SMD							





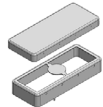
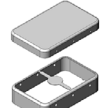
MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS220-20	Drawn EMI/RFI Shield	Tin-Steel	22	0.866	17.7	0.696	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS220-30	Drawn EMI/RFI Shield	Tin-Steel	22	0.866	11.3	0.445	2.8	0.110
	Seamless Protective Cage Two-piece Shield SMD							
MS220-40	Drawn EMI/RFI Shield	Tin-Steel	22	0.866	11.3	0.445	7	0.276
	Seamless Protective Cage Two-piece Shield SMD							
MS223-10	Drawn EMI/RFI Shield	Tin-Steel	22.3	0.878	17.3	0.681	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS226-10	Drawn EMI/RFI Shield	Tin-Steel	22.6	0.890	17.1	0.673	2	0.079
	Seamless Protective Cage Two-piece Shield SMD							
MS233-10	Drawn EMI/RFI Shield	Tin-Steel	23.3	0.917	17.5	0.689	3.3	0.130
	Seamless Protective Cage Two-piece Shield SMD							



MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS233-20	Drawn EMI/RFI Shield	Tin-Steel	23.3	0.917	14.5	0.571	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS256-10	Drawn EMI/RFI Shield	Tin-Steel	25.6	1.008	15.5	0.610	2.3	0.091
	Seamless Protective Cage Two-piece Shield SMD							
MS257-10	Drawn EMI/RFI Shield	Tin-Steel	25.7	1.012	25.7	1.012	6.5	0.256
	Seamless Protective Cage Two-piece Shield SMD							
MS259-10	Drawn EMI/RFI Shield	Tin-Steel	25.9	1.020	25.9	1.020	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS263-10	Drawn EMI/RFI Shield	Tin-Steel	26.3	1.035	16.8	0.661	4.5	0.177
	Seamless Protective Cage Two-piece Shield SMD							
MS263-20	Drawn EMI/RFI Shield	Tin-Steel	26.3	1.035	19.8	0.780	8.1	0.319
	Seamless Protective Cage Two-piece Shield SMD							

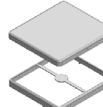
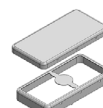
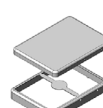

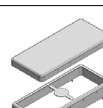
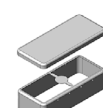
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			mm	inch	mm	inch	mm	inch
MS268-10	Drawn EMI/RFI Shield	Tin-Steel	26.8	1.055	15.6	0.614	2.5	0.098
	Seamless Protective Cage Two-piece Shield SMD							
MS268-20	Drawn EMI/RFI Shield	Tin-Steel	26.8	1.055	15.6	0.614	4	0.157
	Seamless Protective Cage Two-piece Shield SMD							
MS288-10	Drawn EMI/RFI Shield	Tin-Steel	28.8	1.134	19.4	0.764	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS293-10	Drawn EMI/RFI Shield	Tin-Steel	29.3	1.154	25.3	0.996	6.4	0.252
	Seamless Protective Cage Two-piece Shield SMD							
MS300-10	Drawn EMI/RFI Shield	Tin-Steel	30	1.181	24.4	0.961	3.5	0.138
	Seamless Protective Cage Two-piece Shield SMD							
MS312-10	Drawn EMI/RFI Shield	Tin-Steel	31.2	1.228	30	1.181	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							


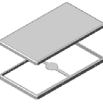
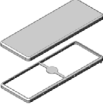
MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS321-10	Drawn EMI/RFI Shield	Tin-Steel	32.1	1.264	16.6	0.654	2.5	0.098
	Seamless Protective Cage Two-piece Shield SMD							
MS323-10	Drawn EMI/RFI Shield	Tin-Steel	32.3	1.272	23.8	0.937	3.7	0.146
	Seamless Protective Cage Two-piece Shield SMD							
MS323-20	Drawn EMI/RFI Shield	Tin-Steel	32.3	1.272	23.8	0.937	4.7	0.185
	Seamless Protective Cage Two-piece Shield SMD							
MS323-30	Drawn EMI/RFI Shield	Tin-Steel	32.3	1.272	23.8	0.937	9	0.354
	Seamless Protective Cage Two-piece Shield SMD							
MS329-10	Drawn EMI/RFI Shield	Tin-Steel	32.9	1.295	20.7	0.815	2.5	0.098
	Seamless Protective Cage Two-piece Shield SMD							
MS338-10	Drawn EMI/RFI Shield	Tin-Steel	33.8	1.331	30.3	1.193	3.3	0.130
	Seamless Protective Cage Two-piece Shield SMD							

MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS345-10	Drawn EMI/RFI Shield	Tin-Steel	34.5	1.358	23.3	0.917	3.5	0.138
	Seamless Protective Cage Two-piece Shield SMD							
MS353-10	Drawn EMI/RFI Shield	Tin-Steel	35.3	1.390	20	0.787	6.4	0.252
	Seamless Protective Cage Two-piece Shield SMD							
MS353-20	Drawn EMI/RFI Shield	Tin-Steel	35.3	1.390	22.3	0.878	6.4	0.252
	Seamless Protective Cage Two-piece Shield SMD							
MS355-10	Drawn EMI/RFI Shield	Tin-Steel	35.5	1.398	19	0.748	5.5	0.217
	Seamless Protective Cage Two-piece Shield SMD							
MS366-10	Drawn EMI/RFI Shield	Tin-Steel	36.6	1.441	34.1	1.343	3.3	0.130
	Seamless Protective Cage Two-piece Shield SMD							
MS378-10	Drawn EMI/RFI Shield	Tin-Steel	37.8	1.488	21.6	0.850	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							

MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS384-10	Drawn EMI/RFI Shield	Tin-Steel	38.4	1.512	37.6	1.480	11	0.433
	Seamless Protective Cage Two-piece Shield SMD							
MS400-10	Drawn EMI/RFI Shield	Tin-Steel	40	1.575	18.3	0.720	4	0.157
	Seamless Protective Cage Two-piece Shield SMD							
MS402-10	Drawn EMI/RFI Shield	Tin-Steel	40.2	1.583	34.6	1.362	5.3	0.209
	Seamless Protective Cage Two-piece Shield SMD							
MS412-10	Drawn EMI/RFI Shield	Tin-Steel	41.2	1.622	13.6	0.535	5.1	0.201
	Seamless Protective Cage Two-piece Shield SMD							
MS415-10	Drawn EMI/RFI Shield	Tin-Steel	41.5	1.634	16.8	0.661	6.8	0.268
	Seamless Protective Cage Two-piece Shield SMD							
MS415-20	Drawn EMI/RFI Shield	Tin-Steel	41.5	1.634	26.5	1.043	9.5	0.374
	Seamless Protective Cage Two-piece Shield SMD							

MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS448-10	Drawn EMI/RFI Shield	Tin-Steel	44.8	1.764	18.2	0.717	3	0.118
	Seamless Protective Cage Two-piece Shield SMD							
MS448-20	Drawn EMI/RFI Shield	Tin-Steel	44.8	1.764	18.2	0.717	5.7	0.224
	Seamless Protective Cage Two-piece Shield SMD							
MS453-10	Drawn EMI/RFI Shield	Tin-Steel	45.3	1.783	16.2	0.638	6	0.236
	Seamless Protective Cage Two-piece Shield SMD							
MS466-10	Drawn EMI/RFI Shield	Tin-Steel	46.6	1.835	17.3	0.681	5	0.197
	Seamless Protective Cage Two-piece Shield SMD							
MS473-10	Drawn EMI/RFI Shield	Tin-Steel	47.3	1.862	23.3	0.917	5.3	0.209
	Seamless Protective Cage Two-piece Shield SMD							
MS477-10	Drawn EMI/RFI Shield	Tin-Steel	47.7	1.878	18.2	0.717	4	0.157
	Seamless Protective Cage Two-piece Shield SMD							

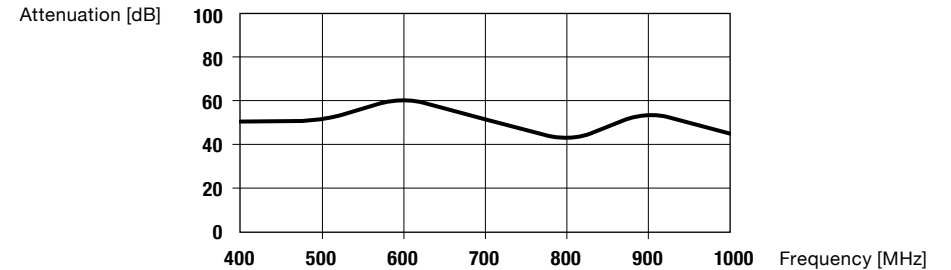
MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS483-10	Drawn EMI/RFI Shield	Tin-Steel	48.3	1.902	44.3	1.744	4.4	0.173
	Seamless Protective Cage Two-piece Shield SMD							
MS511-10	Drawn EMI/RFI Shield	Tin-Steel	51.1	2.012	25.7	1.012	6.5	0.256
	Seamless Protective Cage Two-piece Shield SMD							
MS511-20	Drawn EMI/RFI Shield	Tin-Steel	51.1	2.012	38.4	1.512	6.5	0.256
	Seamless Protective Cage Two-piece Shield SMD							
MS513-10	Drawn EMI/RFI Shield	Tin-Steel	51.3	2.020	26.5	1.043	9.5	0.374
	Seamless Protective Cage Two-piece Shield SMD							
MS544-10	Drawn EMI/RFI Shield	Tin-Steel	54.4	2.142	23.9	0.941	7.5	0.295
	Seamless Protective Cage Two-piece Shield SMD							
MS544-20	Drawn EMI/RFI Shield	Tin-Steel	54.4	2.142	23.9	0.941	13.5	0.531
	Seamless Protective Cage Two-piece Shield SMD							

MS PN.	Description	Material	Length (ext)		Width (ext)		Height (ext)	
			mm	inch	mm	inch	mm	inch
MS585-10	Drawn EMI/RFI Shield	Tin-Steel	58.5	2.303	49.7	1.957	4.7	0.185
	Seamless Protective Cage Two-piece Shield SMD							
MS593-10	Drawn EMI/RFI Shield	Tin-Steel	59.3	2.335	20.6	0.811	2.8	0.110
	Seamless Protective Cage Two-piece Shield SMD							
MS593-20	Drawn EMI/RFI Shield	Tin-Steel	59.3	2.335	20.6	0.811	5.7	0.224
	Seamless Protective Cage Two-piece Shield SMD							
MS631-10	Drawn EMI/RFI Shield	Tin-Steel	63.1	2.484	35.5	1.398	2.8	0.110
	Seamless Protective Cage Two-piece Shield SMD							
MS737-10	Drawn EMI/RFI Shield	Tin-Steel	73.7	2.902	28.1	1.106	2.9	0.114
	Seamless Protective Cage Two-piece Shield SMD							



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Typical PCB Shielding Effectiveness.



[Typical performance of 51.1mm x 38.4mm EMI/RFI shield as reference]

Tinplate Steel Stock Storage & Handling

Materials Specification: Cold Reduced Electrolytic Tinplate Steel
Tinplate Standard: TS275E8.4/8.4 EN 10202:2001

The materials used to fabricate these shields are based on mild steel with less than 0.12% Carbon and no more than 1% alloying elements and naturally occurring impurities. Major shielding elements are thus ferrous and tin. The thin resultant layer of tin enables shields to be easily soldered to PC boards as well as to resist corrosion during the assembly process. Tin plate shields offer the most cost effective shielding protection provided the following care is taken during storage and handling:

1. Do not pass these components through a salt bath test, they are not designed for such severe treatment. Alternate materials (albeit more expensive) are available.
2. Frames should be left in the package trays until assembly to preserve shield planarity.
3. Store in a cool dry place and avoid water or other liquids from coming into contact with shields.
4. Mild scratching and scuffs are natural for processed shields from pre-plated material. Protective films can be ordered especially for unblemished finish of covers.
5. Extremely thin film of oil may cover some shields. This does affect soldering and need not be removed.

Tinplate shields constitute over 85% of the materials used in the Masach production program and have been proven effective in their respective applications.

Worldwide Activity.



Global Recognition



We continue to develop innovative products utilizing new manufacturing techniques, serving our ever-growing network of worldwide distributors and customers.

ISO 9001 Quality Assurance



We provide our customers with highest quality products and timely delivery, managed by a state of the art ERP system in accordance with ISO 9001 quality standards.

Green Policy.



RoHS & Reach Compatible



We use only fabricated materials that are RoHS and Reach compatible, with standards continually updated. COC of base material used is available upon request.

Scrap and Discarded Material

All material scrap resultant from the fabrication process is gathered and stored in separate bins for subsequent recycling. We pride ourselves in achieving 100% recycling of all metallic waste. Plastic sheet scrap resultant from the vacuum form process is 100% recycled via the raw material provider. We encourage our customers to return the vacuum form package trays and packing cartons for future recycling.

Environment

Our modern fabrication plant and facilities are surrounded by trees, shrubs and flower beds. Water condensed from the plant's air conditioners serve to water our gardens, requiring no additional irrigation.

MS PN.	Length (ext)		Width (ext)		Height (ext)	
	mm	inch	mm	inch	mm	inch

MS087-10	8.7	0.366	6.3	0.366	3	0.197
MS093-10	9.3	0.366	9.3	0.366	5	0.197
MS110-10	11	0.433	11	0.433	2.8	0.110
MS110-20	11	0.433	11	0.433	6	0.236
MS130-10	13	0.512	13	0.512	5	0.197
MS135-20	13.5	0.531	13.5	0.531	5.1	0.201
MS148-10	14.8	0.583	8.9	0.350	2	0.079
MS156-10	15.6	0.614	10.6	0.417	3	0.118
MS168-10	16.8	0.661	13.5	0.531	5	0.197
MS183-10	18.3	0.720	10.5	0.413	3	0.118
MS190-10	19	0.748	13.9	0.547	2	0.079
MS193-10	19.3	0.760	10.5	0.413	3	0.118
MS206-10	20.6	0.811	17.8	0.701	3	0.118
MS209-10	20.9	0.823	15.3	0.602	1.65	0.065
MS209-20	20.9	0.823	15.3	0.602	2	0.079
MS210-10	21	0.827	12	0.472	5	0.197
MS213-10	21.3	0.827	19.9	0.783	2.9	0.114
MS220-10	22	0.866	19.3	0.760	3.3	0.130
MS220-20	22	0.866	17.7	0.697	3	0.118
MS220-30	22	0.866	11.3	0.445	2.8	0.110
MS220-40	22	0.866	11.3	0.445	7	0.276
MS223-10	22.3	0.878	17.3	0.681	3	0.118
MS226-10	22.6	0.890	17.1	0.673	2	0.079
MS233-10	23.3	0.917	17.5	0.689	5	0.197
MS233-20	23.3	0.917	14.5	0.571	3	0.118
MS256-10	25.6	1.008	15.5	0.610	2.3	0.091
MS257-10	25.7	1.012	25.7	1.012	6.5	0.256
MS259-10	25.9	1.020	25.9	1.020	3	0.118
MS263-10	26.3	1.035	16.8	0.661	4.5	0.177
MS263-20	26.3	1.035	19.8	0.780	8.1	0.319
MS268-10	26.8	1.055	15.6	0.614	2.5	0.098
MS268-20	26.8	1.055	15.6	0.614	4	0.157
MS288-10	28.8	1.134	19.4	0.764	5	0.197
MS293-10	29.3	1.154	25.3	0.996	6.4	0.252
MS300-10	30	1.181	24.4	0.961	3.5	0.138
MS312-10	31.2	1.228	30	1.181	5	0.197

MS PN.	Length (ext)		Width (ext)		Height (ext)	
	mm	inch	mm	inch	mm	inch

MS321-10	32.1	1.264	16.6	0.654	2.5	0.098
MS323-10	32.3	1.272	23.8	0.937	3.7	0.146
MS323-20	32.3	1.272	23.8	0.937	4.7	0.185
MS323-30	32.3	1.272	23.8	0.937	9	0.354
MS329-10	32.9	1.295	20.7	0.815	2.5	0.098
MS338-10	33.8	1.331	30.3	1.193	3.3	0.130
MS345-10	34.5	1.358	23.3	0.917	3.5	0.138
MS353-10	35.3	1.390	20	0.787	6.4	0.252
MS353-20	35.3	1.390	22.3	0.878	6.4	0.252
MS355-10	35.5	1.398	19	0.748	5.5	0.217
MS366-10	36.6	1.441	34.1	1.343	3.3	0.130
MS378-10	37.8	1.488	21.6	0.850	3	0.118
MS384-10	38.4	1.512	37.6	1.480	11	0.433
MS400-10	40	1.575	18.3	0.720	4	0.157
MS402-10	40.2	1.583	34.6	1.362	5.3	0.209
MS412-10	41.2	1.622	13.6	0.535	5.1	0.201
MS415-10	41.5	1.634	16.8	0.661	6.8	0.268
MS415-20	41.5	1.634	26.5	1.043	9.5	0.374
MS448-10	44.8	1.764	18.2	0.717	3	0.118
MS448-20	44.8	1.764	18.2	0.717	5.7	0.224
MS453-10	45.3	1.783	16.2	0.638	6	0.236
MS466-10	46.6	1.835	17.3	0.681	5	0.197
MS473-10	47.3	1.862	23.3	0.917	5.3	0.209
MS477-10	47.7	1.878	18.2	0.717	4	0.157
MS483-10	48.3	1.902	44.3	1.744	4.4	0.173
MS511-10	51.1	2.012	25.7	1.012	6.5	0.256
MS511-20	51.1	2.012	38.4	1.512	6.5	0.256
MS513-10	51.3	2.020	26.5	1.043	9.5	0.374
MS544-10	54.4	2.142	23.9	0.941	7.5	0.295
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MS593-20	59.3	2.335	20.6	0.811	5.7	0.224
MS631-10	63.1	2.484	35.5	1.398	2.8	0.110
MS737-10	73.7	2.902	28.1	1.106	2.9	0.114

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