RF SHIELDING SPECIALISTS

- Custom Capabilities
- Affordable
- Off-The-Shelf Solutions
- Quick Turn Around

1320 SUITE 13, LINCOLN AVENUE
HOLBROOK, NEW YORK 11741
1-888-546-3313
631.585.3400
FAX 631.585.3534
www.compac-rf.com
Compac Development Corporation is the only manufacturer that specializes in meeting your RF/EMI shielded enclosure requirements from standard parts to total custom capabilities.

Compac offers an extremely versatile line of off-the-shelf shielded enclosures plus the additional capability of customizing our standard products or, manufacturing to your specs, from prototype to production.

To further support the design function Compac offers a broad selection of RF accessories, gaskets, coaxial attenuators, coaxial terminators, filter feed-thrus, connectors, mounting bars, etc.

The Compac concept is geared to fast, accurate, dependable manufacturing, to meet the most demanding delivery schedules.

For additional information or assistance, contact your local Compac representative, contact the factory directly or visit our website at: www.compac-rf.com.

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SEE PAGES 7/8 FOR REQUEST FOR QUOTATION

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VISIT OUR WEBSITE AT:
www.compac-rf.com

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TOLL FREE 1-888-546-3313
TEL (631) 585-3400
FAX (631) 585-3534
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Compac's "new" SRF Series yields the greatest shielding effectiveness thru 20GHz of any standard product on the market today.

**SRF Series Enclosures**
- Shielding at or above 80 dB
- Enclosures tested to 20 GHz
- Provides atmospheric seals, gas tight seals attainable with higher clamping forces
- Independent access from either side
- Greater Interior Acreage

Construction Specs: Case-AL 6063T52 Covers-AL 5052-H32 finish chemical film per MIL C 5541
Class 3
Conformance to MIL 45208A

**How To Order**

<table>
<thead>
<tr>
<th>CASE PART NO.</th>
<th>S-51110-138-0 (N)</th>
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<tbody>
<tr>
<td>CASE HEIGHT</td>
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<tr>
<td>075 - 0.75</td>
<td></td>
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<tr>
<td>100 - 1.00</td>
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<tr>
<td>135 - 1.38</td>
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<td>175 - 1.75</td>
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<tr>
<td>212 - 2.12</td>
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<td>250 - 2.50</td>
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</tr>
<tr>
<td>COVER TYPE</td>
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</tr>
<tr>
<td>0 - Standard flush</td>
<td></td>
</tr>
<tr>
<td>1 - Extended</td>
<td></td>
</tr>
<tr>
<td>ADD FOR NICKEL PLATE</td>
<td></td>
</tr>
</tbody>
</table>

**CUSTOM HIGHLIGHT**

As with all other of Compac's Series of enclosures, Compac will modify the SRF Series to meet your needs. Whether it be drilling, tapping, milling, etc. of our standard sizes or lending of designs and method construction to your size requirements.

**TO ORDER**

Select a case size from the SRF series, send a drawing and include overall height, feedthru location, type (plain Teflon or filter) connector location, etc. Our expertise in shielded cases can give you a truly CUSTOM design, limited only by your requirements.

**Specifications** subject to change without notice.
RFT Series Enclosures

- Compac's RFT Series Enclosures have shielding capabilities to 60 dB at 3 GHz
- Independent access from either side
- Greater Interior Acreage

Construction Specs: Case-AL 6063T52 Covers - AL 5052-H32
finish chemical film per MIL C 5541, Class 3
Conformance to MIL 45208A

How To Order

CASE PART NO.
0.75 - 0.75 175 - 1.75
100 - 1.00 910 - 2.12
138 - 1.38 250 - 2.50

COVER TYPE
0 - Standard flush
1 - Extended

ADD FOR NICKEL PLATE

Custom Highlight
Compac will modify the RFT Series Enclosures to meet your need:
- Drilling
- Tapping
- Milling
- "D" Punching
- Work is done from your prints or to your specifications.

For your convenience Compac has included on page 7 a request for quote with a rendering of a Compac Case to depict your modifications.

---

Specifications subject to change without notice.

YOUR PRINT 
ADD FOR NICKEL PLATE

TO ORDER
Select a case size from the RFT series, send a drawing and include: overall height, leadthru location, type (plain Teflon or filter) connector location etc. Our expertise in shielded cases can give you a truly CUSTOM design, limited only by your requirements.
BLANK Series Enclosures

- Compac's Blank Series Enclosures provide up to 100 dB shielding effectiveness at 100 MHz.
- Easy access and assembly
- Off-the-shelf availability
- Greater Interior Acreage

Construction Specs: Case—AL 6063T52 Covers—AL 5052-H32 finish chemical film per MIL C 5541, Class 3
Conformance to MIL 45208A

How To Order

CASE PART NO. 51110-138-0 (N)
CASE HEIGHT 075 - 0.75 175 - 1.75 100 - 1.00 212 - 2.12 138 - 1.38 250 - 2.50
COVER TYPE 0 - Standard flush 1 - Extended
ADD FOR NICKEL PLATE

CUSTOM HIGHLIGHT

Compac will modify the Blank Series Enclosures to meet your need:
- Drilling
- Tapping
- Milling
- Punching
- Subminiature
- Connections
- Silk Screening, Painting

Work is done from your prints or to your specifications.

For your convenience, Compac has included on page 7 a request for quote with a rendering of a Compac Case to depict your modifications.

To Order select a case size from the BLANK series, send a drawing and include: overall height, feedthrough location, type (plain Teflon or filter) connector location etc. Our expertise in shielded cases can give you a truly CUSTOM design, limited only by your requirements.

1320 SUITE 13, LINCOLN AVENUE
HOLBROOK, NEW YORK 11741
TOLL FREE 1-888-546-3313
TEL (631) 585-3400
FAX (631) 585-3534
www.compac-rf.com
Compac Standard Series offers 31 off-the-shelf case configurations. In addition, you can choose either Blank, RFT, or SRF construction and flush or extended bottom covers. A choice of four-hole flange-mounted female connectors (SMA, TNC, N, BNC) designed to meet MIL-C-39012 are available as well as optional filters. (For connector and filter specs, please refer to pages 9 and 13 of this catalog.)

Compac Standard Series lends itself to your engineering stock room. Cases and connectors can be interchanged to fit your requirements.

**FLT Series Enclosures**

- Shielding capabilities to 60 dB at 3 GHz
- Board Mountable Construction allows direct to board mounting
- 1 cover option provide screw tapped pattern on opposite side
- Independent access to component without removing it from the board
- Greater Interior Acreage

Construction Specs: Case—AL 6063T52 Covers—AL 5052-H32 finish chemical film per MIL-C 554, 1Class 3

Conformance to MIL 45208A

---

**How To Order**

**BASIC PART NUMBER**

**CASE TYPE**
- R - RFT
- B - Blank

**RFI FILTER TYPE**
- 0 - No Filter
- 1 - Plain Teflon Feed Thru
- 2 - Filter Feed Thru

**CONNECTOR TYPE**
- 1 - SMA Female
- 2 - BNC Female
- 3 - TNC Female
- 4 - N Female

**COVER TYPE**
- 0 - Standard flush
- 1 - Extended

---

**How To Order**

**FL T SERIES**

**CASE HEIGHT**
- 025 - .250
- 050 - .500
- 075 - .750

**FINISH**
- I - Irridite
- N - Nickel
- S - Specify

---

**COMPAC**

**STANDARD SERIES**

---

**FLT SERIES**

**CASE HEIGHT**

<p>| | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
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<td>1.860</td>
<td>.930</td>
<td>1.360</td>
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</tbody>
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**SIDE VIEW**

[Diagram of FLT Series Enclosures]

---

**TOP VIEW**

[Diagram of FLT Series Enclosures]
REQUEST FOR QUOTATION

Company Name ________________________________
Program ________________________________
Proj Eng ________________________________

To: COMPAC
1320 SUITE 13, LINCOLN AVENUE
HOLBROOK, NEW YORK 11741
Attn: Sales Dept.

Company Name ________________________________
Address ______________________________________
_____________________________________________________

Phone ( ) ____________________________ Ext. ______
Contact ________________________________
E-Mail ________________________________

Your quote should reach us no later than:
Phone Date ________________________________
Written Date ________________________________

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Delivery Required ________________________________

Signed ________________________________

FOB: Holbrook, New York
REQUEST FOR QUOTATION

Instructions for specifying a Compac Customer Enclosure.

Specify where applicable —
- Length & Width Dimensions
- Wall Thickness
- Modifications to Enclosure, i.e., Connector and Placement, or Filter Placement
- Hole Type (Countersink, Tap, Thru)
- Hole Dimension
- Method of Construction (SRF, RFT or Blank)

Use this drawing to describe overall length, width, wall thickness, cover thickness. Describe whether optional extended mounting cover is desired etc. Further use the various views to depict hole placement both on covers and sidewalls of the enclosure.

CO. NAME

PRINT NUMBER
DIECAST BOXES

These new cast boxes are also available with RF connectors and filters. Contact factory for details.
- Aluminum alloy box, with no sharp corners
- Countersunk self-tapping screws in lid
- Interlocking flanged lid
- Unfinished but smooth surface accepts normal paints

<table>
<thead>
<tr>
<th>COMPAC CAT NO.</th>
<th>DIMENSIONS – inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-4001</td>
<td>A 3.6 (92) B 1.5 (38) C 1.0 (27)</td>
</tr>
<tr>
<td>DC-4002</td>
<td>A 4.3 (111) B 2.3 (60) C 1.0 (27)</td>
</tr>
<tr>
<td>DC-4003</td>
<td>A 4.6 (119) B 3.6 (93) C 1.1 (30)</td>
</tr>
<tr>
<td>DC-4004</td>
<td>A 4.6 (119) B 3.6 (93) C 2.0 (52)</td>
</tr>
<tr>
<td>DC-4005</td>
<td>A 7.3 (187) B 4.7 (119) C 2.0 (52)</td>
</tr>
<tr>
<td>DC-4006</td>
<td>A 7.3 (187) B 4.7 (119) C 3.0 (77)</td>
</tr>
<tr>
<td>DC-4007</td>
<td>A 7.3 (187) B 7.3 (187) C 2.5 (63)</td>
</tr>
</tbody>
</table>

FINISHES

Standard finish for a COMPAC Enclosure. Chemical finish per MIL-C-5541 Class 3.
- Nickel — to MIL Spec N-290
- Painting
- Black Anodizing
- Silk Screening

Other finishes, which comply to federal and military standards available upon request:

RF CONNECTORS

COMPAC offers a selection of four hole flange mounted connectors, all designed to meet MIL-C-39012.

COMPAC will also mount any connector specified i.e. Subminiature "D", SMB, SMC etc. per client's requirement.

For mounting and excellent grounding please refer to page 13 "Accessories" for detailed descriptions of our MB Series: Mounting Bars, with sizes to fit all COMPAC Standard Size.

<table>
<thead>
<tr>
<th>COMPAC NO.</th>
<th>TYPE</th>
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<tbody>
<tr>
<td>100-10200</td>
<td>SMA</td>
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<tr>
<td>100-10210</td>
<td>BNC</td>
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<tr>
<td>100-10220</td>
<td>TNC</td>
</tr>
<tr>
<td>100-10230</td>
<td>N</td>
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</table>
CUSTOM CAPABILITIES

SERVICES
MILLING — Enclosures, Channel, Grooves
HOLEs — Drilled or Punched
MATERIAL THICKNESS — To Your Specifications
SILk SCREENING or PAINTING
CONSTRUCTION METHODS — Extrusion
BRAZED, FABRICATED, MILLED SHEETMETAL — To Your Specifications

ADVANTAGE OF A CUSTOM ENCLOSURE
- Low Cost
- To Your Exacting Specification
- Short Lead Times
- Prototype to Production Quantity
- Finished Product Ready for Assembly
- With or Without Connectors & Filters

Custom Manufactured using RFT Construction
6.00" x 8.00" x .75", Shows Custom Drilling, Milling, Counter Sinking, and Custom Partitions

Brazed Enclosure with Mounting Bars for Board Mounting Custom Manufactured RFT Construction
5.25" x 12.0" x 2.5"
Partition Brazed Dividing Enclosure into 2—1.25 Compartments with Bars in One Side for Board Mounting Milled Cutouts in Bottom Compartments

Custom Manufactured Utilizing Sliding Cover w/Captive Screw for Convenient Access to Components
CUSTOM Series

COMPAC's unique product line can easily be tailored to meet your many custom specifications. But if our RFT, Blank or SRF Series do not fit your requirements, COMPAC can build a totally custom enclosure quickly and inexpensively. Compac's versatility converts your design into a finished product ready for assembly and installation. All you have to do is supply circuitry!

Print or Detailed Drawings Required

Custom Milled Enclosure with Horizontal Partition

Custom Milled Enclosure
1.25" x 3.25" x 0.500"

Custom Enclosure
RFT Construction
4.5" x 8.0" x 9.75"
Brazed Partitions Both Vertical and Horizontal Dividing into 3 RF Tight Compartments

Manufactured from RS1230-100-0(N)
Showing Custom Mounting Plate Drilling, Milling and "D" Punching
ACCESSORIES

COAXIAL ATTENUATORS

BNC/DC TO 2.0 GHz
Operating Temperature Range:
-55 to +125°C
Total Input Power: 1 watt average
Impedance: 50 ohms
VSWR: DC to GHz 1.2 to 1
1 GHz to 2 GHz 1.4 to 1
Accuracy: DC to GHz ±.5 dB
1 GHz to 2 GHz ±.8 dB

TNC/DC TO 2.0 GHz
Operating Temperature Range:
-55 to +125°C
Total Input Power: 1 watt average
Impedance: 50 ohms
VSWR: DC to 1 GHz 1.2 to 1
1 GHz to 2 GHz 1.4 to 1

SMA/DC TO 2.5 GHz
Operating Temperature Range:
-90 to +125°C
Total Input Power: 1 watt average
Finish: Passivated Stainless Inconel
Accuracy: DC to GHz ±.5 dB
1 GHz to 2.5 GHz ± 1 dB
Impedance: 50 ohms
VSWR: DC to 1 GHz 1.2 to 1 Max.
1 GHz to 2.5 GHz 1.4 to 1 Max.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ATTENUATION VALUE</th>
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<tbody>
<tr>
<td>130-1001</td>
<td>1 dB</td>
</tr>
<tr>
<td>130-1002</td>
<td>2 dB</td>
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<tr>
<td>130-1003</td>
<td>3 dB</td>
</tr>
<tr>
<td>130-1006</td>
<td>6 dB</td>
</tr>
<tr>
<td>130-1010</td>
<td>10 dB</td>
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<tr>
<td>130-1020</td>
<td>20 dB</td>
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<tr>
<td>130-1030</td>
<td>30 dB</td>
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<table>
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<tr>
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<td>2 dB</td>
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<td>130-2003</td>
<td>3 dB</td>
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<td>130-2006</td>
<td>6 dB</td>
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<td>130-2010</td>
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<td>130-2020</td>
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<tr>
<td>130-2030</td>
<td>30 dB</td>
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<th>MODEL 130-2050</th>
<th>MODEL 130-1075</th>
<th>MODEL 130-2075</th>
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<tbody>
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<td>Frequency Range</td>
<td>DC to 1 GHz</td>
<td>DC to 1 GHz</td>
<td>DC to 1 GHz</td>
<td>DC to 1 GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm male</td>
<td>75 ohm female</td>
<td>50 ohm female</td>
<td>75 ohm female</td>
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<tr>
<td>VSWR (Max)</td>
<td>1.2 to 1</td>
<td>1.2 to 1</td>
<td>1.2 to 1</td>
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<td>Accuracy</td>
<td>±.5 dB</td>
<td>±.5 dB</td>
<td>±.5 dB</td>
<td>±.5 dB</td>
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</table>

COAXIAL TERMINATIONS

SMA/DC TO 2.5 GHz
Specifications: 190-1001 / 190-1002
Power: 1 watt average
Material: Passivated Stainless Steel
Impedance: 50 ohm nominal
Temperature Range: -90° to +125°C
VSWR: DC to 2.5 GHz 1.5 to 1 maximum

BNC
Specifications: DC TO 2 GHz — 50 ohms
Power: 1 watt average
VSWR: 1.1 to 1 maximum
Male: 190-1003 / 190-1005
Female: 190-1004

FEED-THRU TERMINATIONS

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<th>MODEL 120-1008</th>
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<tr>
<td>FREQUENCY</td>
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<tr>
<td>VSWR</td>
<td>DC to 500 MHz</td>
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</table>

All dimensions in inches.
Additional products which do not appear on this page can be designed to meet your requirements.
ACCESSORIES

FILTERS & FEED-THRU

Plain Teflon Feed-Thru

**DIMENSIONS**

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<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>0.287</td>
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**RFI/EMI SUPPRESSION FILTERS**

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<th>WORKING VOLTS</th>
<th>DCR MAX.</th>
<th>REFER CAP.</th>
<th>INSERTION LOSS</th>
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<td>3 Amps</td>
<td>200 VDC 100 VDC</td>
<td>0.01</td>
<td>0.001 MFD</td>
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<td>100-1004</td>
<td>10 Amps</td>
<td>200 VDC 100 VDC</td>
<td>0.01</td>
<td>0.02 MFD</td>
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<table>
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<td>10 Amps</td>
<td>200 VDC 100 VDC</td>
<td>0.01</td>
<td>0.015 MFD</td>
<td>5 42 60 65 65</td>
</tr>
<tr>
<td>100-1006</td>
<td>10 Amps</td>
<td>200 VDC 100 VDC</td>
<td>0.01</td>
<td>0.02 MFD</td>
<td>20 30 50 55 65 65</td>
</tr>
</tbody>
</table>

**HIGH FREQUENCY LOWPASS FEED-THRU FILTERS**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>RATED</th>
<th>WORKING VOLTS</th>
<th>DCR MAX.</th>
<th>REFER CAP.</th>
<th>INSERTION LOSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-1006</td>
<td>10 Amps</td>
<td>200 VDC 100 VDC</td>
<td>—</td>
<td>5500 pF</td>
<td>10 50 70 70 70</td>
</tr>
</tbody>
</table>

**GASKETS**

**MATERIAL SPECIFICATIONS**

Thickness: .020N ± .004
Wire: .015 Dia.
Screen: 24 Mesh
Wire Specification: AMS 4182
Sealing Material: Neoprene
Rubber Specification: AMS 3222
Temperature Range: -40° to +212°F

COMPAC's gaskets solve the problem of shielding against EMI/RFI while providing a full tight seal. Made of woven aluminum wire screen impregnated with Neoprene sealing material, the gasket achieves RFI shielding by contact of the aluminum screen gasket to both of the mating surfaces of the assembly. The fluid sealing material fills the gasket to both of the mating surfaces to the assembly. The fluid sealing material fills the gaps between the individual wires of the screen, making the joint pressure tight. Also available for RFT and SRF Series. Contact factory.
CUSTOM CAPABILITIES

COMPAC Mounting bars provide continuous edge support and grounding of circuit boards for critical applications.

Any COMPAC Enclosure 1.0" x 1.0" or larger can be equipped with mounting bars on two or four walls at the factory or in the field.

How To Order

For Factory Installation specify: COMPAC Part # ________ with Mounting Bars installed.

For Field Installation:
Select Mounting Bar 1" shorter than outside length of box.
EXAMPLE: For 51220 box, use (2) MB200 and (2) MB400 bars.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB50</td>
<td>.50</td>
<td>.25</td>
<td>.25</td>
<td>—</td>
</tr>
<tr>
<td>MB75</td>
<td>.75</td>
<td>.50</td>
<td>.37</td>
<td>—</td>
</tr>
<tr>
<td>MB100</td>
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<tr>
<td>MB150</td>
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<td>.37</td>
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<tr>
<td>MB200</td>
<td>2.00</td>
<td>1.75</td>
<td>.50</td>
<td>1.00</td>
</tr>
</tbody>
</table>

All holes 2-56 UNC-2B thru
All mounting Bars .25 x .25
COMPAC products are manufactured to the highest standards of quality and workmanship. Throughout the entire manufacturing process inspections and tests are made to insure superior performance and reliability.

All products manufactured by COMPAC are covered by the following limited warranty:

COMPAC warrants all products manufactured by COMPAC either standard or manufactured to customers' specifications to be free of any defects in material or workmanship, and to meet all specifications published in the catalog or as defined by customers' prints. The company's liability under this warranty is limited to repair and/or replacement of defective parts returned, freight prepaid, within one year from date of shipment.

Misuse in operation or authorized repair of this product voids this warranty.
500 Standard Sizes

Custom Capabilities

Attenuation to
80dB@20GHz

Customized
Standard Product

Custom Manufacturing
To Your Specification

Prototype to Production

COMPAC
RF SHIELDING SPECIALISTS

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www.compac-rf.com