



### Features

- Efficient means of shipping or storing ESD sensitive circuit boards and other items
- Provides ESD shielding with lid closed; "Faraday Cage" effect restricts electrostatic charges to exterior
- For physical protection, convoluted foam secures items, minimizing movement and reduces stress from physical shock
- No assembly required
- Convoluted static dissipative <math>10^{11}</math> ohms polyurethane pink foam laminated to top and fitted in bottom
- Made in the United States of America

See reverse side for available sizes.

### SPECIFICATIONS

Properties	Typical Values
<b>Electrostatic Decay</b>	0.01 seconds at 72°F and 11.8% R.H.
<b>Surface Resistance</b>	$1 \times 10^5$ to $< 1 \times 10^{11}$ ohms
<b>High-Voltage Discharge Resistance</b>	Failure rate 0/5 (no oxide damage in five consecutive tests)
<b>Discharge Shielding</b>	< 50 nanoJoules
<b>Current-Carrying Hazard</b>	$10^3$ mA at 110V; $10^3$ mA at 220V
<b>Corrosivity</b>	Contains 1-3 ppm reducible sulfur
<b>Antistat Transfer</b>	No transfer
<b>Water &amp; Isopropyl Alcohol Extraction Tests for Antistat Permanence</b>	Surface resistance $1 \times 10^8$ to $< 1 \times 10^9$ ohms/square at 74°F and 36% R.H.
<b>Sloughing Test</b>	Negligible surface damage at 10 cycles and <5% of surface damage at 200 cycles in Taber Abrasion Test. No conductive particles abraded from surface
<b>Recyclability</b>	Complete recyclability of package
<b>Biodegradability</b>	Biodegradation in or on moist soil
<b>Volume Conductivity</b>	Conductivity from wall to wall as well as across surface to assure permanence of the antistatic property
<b>Shelf Life</b>	Indefinite

**Test Procedures/Method**  
 FED-STD-101, Method 4046  
 ANSI/ESD STM11.11  
 Rockwell International Test Report of December 20, 1991  
 ANSI/ESD STM 11.31, Required limit is <50 nanoJoules ESD from A to Z  
 FED-STD-101, Method 3005 for reducible sulfur  
 Rockwell International Test Report of January 8, 1992  
 Rockwell International Test Report of January 8, 1992  
  
 ASTM D4060 at 70 rpm with CS-17 abrasive-coated wheels and 1000 grams load  
 Rockwell International Test Report of January 8, 1992  
 Rockwell International Test Report of January 8, 1992  
  
 Rockwell International Test Report of January 8, 1992



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Specifications and procedures subject to change without notice.

### CIRCUIT BOARD SHIPPERS

**PROTEKTIVE PAK**

 **ESD-Line.ru**

**DRAWING NUMBER**  
37050

**DATE:**  
August  
2014

Item No.	Size I.D. - L x W x D (mm)
<b>37050</b>	102 X 102 X 54, box only
<b>37051</b>	102 X 102 X 54, box w/foam
<b>37080</b>	157 X 152 X 38, box only
<b>37081</b>	157 X 152 X 38, box w/ foam
<b>37052</b>	178 X 127 X 38, box only
<b>37053</b>	178 X 127 X 38, box w/ foam
<b>37054</b>	178 X 127 X 64, box only
<b>37055</b>	178 X 127 X 64, box w/ foam
<b>37082</b>	178 X 178 X 38, box only
<b>37083</b>	178 X 178 X 38, box w/ foam
<b>37056</b>	229 X 191 X 64, box only
<b>37057</b>	229 X 191 X 64, box w/foam
<b>37084</b>	229 X 229 X 38, box only
<b>37085</b>	229 X 229 X 38, box w/foam
<b>37058</b>	267 X 216 X 38, box only
<b>37059</b>	267 X 216 X 38, box w/foam
<b>37060</b>	267 X 216 X 64, box only
<b>37061</b>	267 X 216 X 64, box w/foam
<b>37062</b>	267 X 216 X 64, box only
<b>37063</b>	318 X 267 X 38, box w/foam
<b>37064</b>	318 X 267 X 64, box only
<b>37065</b>	318 X 267 X 64, box w/foam

Item No.	Size I.D. - L x W x D (mm)
<b>37066</b>	378 X 168 X 51, box only
<b>37067</b>	378 X 168 X 51, box w/foam
<b>37068</b>	394 X 318 X 38, box only
<b>37069</b>	394 X 318 X 38, box w/foam
<b>37070</b>	394 X 318 X 64, box only
<b>37071</b>	394 X 318 X 64, box w/foam
<b>37072</b>	406 X 311 X 89, box only
<b>37073</b>	406 X 311 X 89, box w/foam
<b>37086</b>	406 X 381 X 76, box only
<b>37087</b>	406 X 381 X 76, box w/foam
<b>37074•</b>	479 X 448 X 44, box only
<b>37075•</b>	479 X 448 X 44, box w/foam
<b>37088•</b>	483 X 483 X 76, box only
<b>37089•</b>	483 X 483 X 76, box w/foam
<b>37076•</b>	521 X 394 X 38, box only
<b>37077•</b>	20521 X 394 X 38, box w/foam
<b>37078</b>	521 X 394 X 64, box only
<b>37079</b>	521 X 394 X 64, box w/foam
<b>37090•</b>	559 X 381 X 76, box only
<b>37091•</b>	559 X 381 X 76, box w/foam
<b>37092•</b>	695 X 619 X 102, box only
<b>37093•</b>	695 X 619 X 102, box w/foam

- These items made to order