5W Low Cost Linear Eliminator
PSAA05 Adapters Meet EISA and Level V Requirements

Features
- Double Insulated
- Efficiency Level V Compliance
- Small Package Size
- Low Leakage Current
- Low Cost
- Class B EMI

Applications
- MPEG Players
- PDAs
- Personal Electronics
- Digital Cameras

Safety Approvals
- CE
- TUV
- cUL/UL
- SAA
- c-Tick

Mechanical Characteristics (1)
- Length: 66.5mm (2.62in)
- Height: 39.0mm (1.54in)
- Width: 28.0mm (1.10in)
- Weight: 85g (3oz)

Output Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Ripple (2) P-P (max.)</th>
<th>Regulation Line &amp; Load</th>
<th>Efficiency Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSAA05X-050(3)</td>
<td>5.0V</td>
<td>0A</td>
<td>1A</td>
<td>100mV</td>
<td>±5%</td>
</tr>
</tbody>
</table>

Notes:
(1) Mechanical characteristics for PSAA05A-050 model
(2) Measured with an oscilloscope with 20MHz (or over) bandwidth. Outputs should be bypassed at a connector with a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor.
(3) x = A for US version, E for EU version, K for UK version, S for Australian version
(Note) MOQ of 2200 pieces for EU and Australian models and 2100 pieces for UK model

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PSAA05X Characteristics

**Input:**
AC Input Voltage Rating
100 to 240V AC

AC Input Voltage Range
90 to 264V AC

AC Input Frequency
47 to 63Hz

Input Current
0.3A (RMS) maximum at 90V AC

Leakage Current
20uA maximum at 240V AC, 50Hz

Inrush Current
45A maximum at 264V AC
(Cold start at ambient 25°C)

Input Power Saving
<0.3W maximum at no load

**Output:**
Efficiency
≥68% average efficiency

**Environmental:**
Temperature
Operation 0 to +50°C
Non-operation -25 to +75°C
Humidity 0 to 90%

Emissions
EN55022 Class B

Immunity
IEC61000-4-2
IEC61000-4-3
IEC61000-4-4
IEC61000-4-5
IEC61000-4-6
IEC61000-4-11
EN61000-3-2

Over-Voltage Protection
7.2V DC maximum

Over-Current Protection
2.2A maximum

Short-Circuit Protection
Output equipped with short circuit protection with auto restart
Output can be shorted permanently without damage

Dielectric Withstand (Hi-pot) Test
Primary to Secondary: 3000V AC for 1 min., 60mA

DC Output Connector
Mini-USB

**Dimension Diagram Unit: mm** PSAA05A-050
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

**Phihong:**
- PSAA05A-050-R
- PSAA05E-050-R
- PSAA05K-050-R
- PSAA05S-050-R