



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ULTRA LOW NOISE POWER SUPPLY MODULE

ABPSM-ULN-A



FEATURES:

- AC Adapter Input Voltage 100VAC to 240VAC; 50Hz and 60Hz cycles – World Wide Capability
- Four DC Output Ports, 1.8V, 2.5V, 3.3V & 5.0V
- Current Sourcing Capability 200mA max each port
- Exceptional low noise density; $< 7\text{nV} / \sqrt{\text{Hz}}$ @ 1kHz offset Typical
- Better than $0.30\mu\text{Vrms}$ over 0.1Hz to 1kHz bandwidth (best-in-class)
- Convenient, Ultra Low Noise Solution offering most common bias levels
- Portable - Small form factor [3.50" * 1.50" * 0.65"] Machined Aluminum enclosure
- No external heat sinking is required
- Low Cost

APPLICATIONS:

- Lab Grade Power Supply designed to replace bulky & noisy power supplies for everyday use
- A must have for Noise Sensitive Measurements such as, S/N ratio, Spectral Purity, Jitter, Phase Noise & Harmonic Distortion
- Ideal for testing circuits including:
 - Audio
 - Medical Diagnostic
 - RF
 - Jitter Sensitive Digital
 - Microwave

STANDARD SPECIFICATIONS:

| Parameter | Description | Value / Units (max) |
|------------------------|-----------------------------------|----------------------------|
| Nominal Voltages | +1.8V, +2.5V, +3.3V, +5.0V | |
| Voltage Accuracy | Initial accuracy at T=25°C | $< \pm 0.25\%$ |
| | T=0 °C to T=+70 °C | $< \pm 0.30\%$ |
| Maximum Output Current | T=25 °C | 200mA |
| Load Regulation | Δ Load = 1mA to 200mA | 5mV |
| Output Impedance | Max. Output Impedance @ each port | 0.20 Ω |
| Voltage Output Noise | Noise Density @ 100Hz | 80 nV / $\sqrt{\text{Hz}}$ |
| | Noise Density @ 1kHz | 25 nV / $\sqrt{\text{Hz}}$ |
| | Noise Density @ 10kHz | 20 nV / $\sqrt{\text{Hz}}$ |

OUTLINE DIMENSIONS:



ABRACON IS
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CERTIFIED



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ULTRA LOW NOISE POWER SUPPLY MODULE

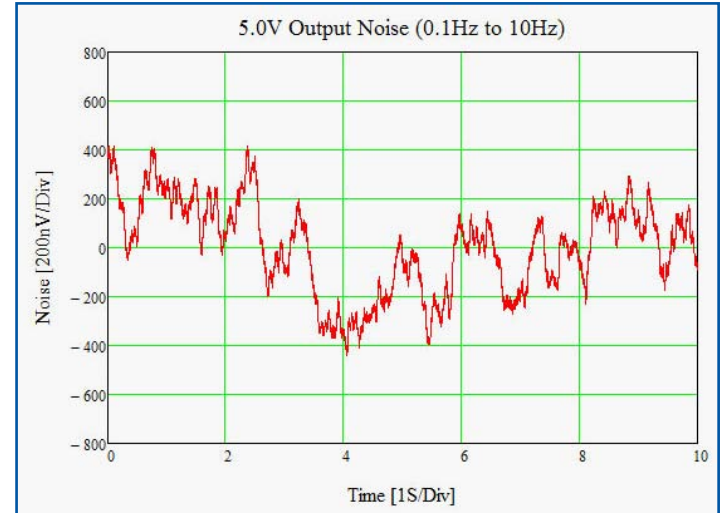
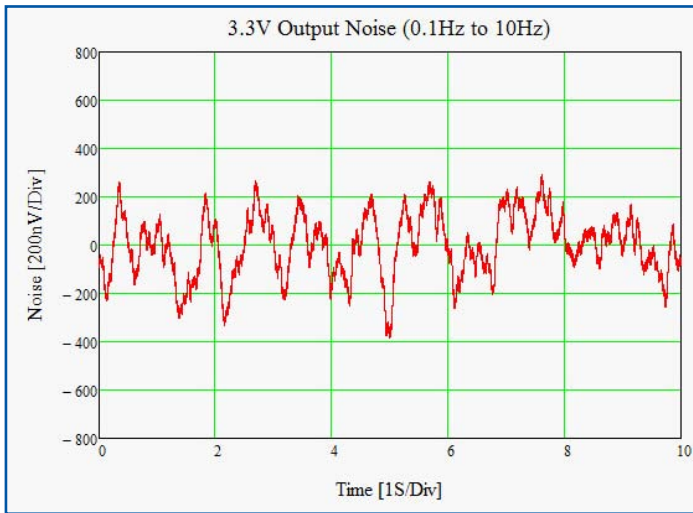
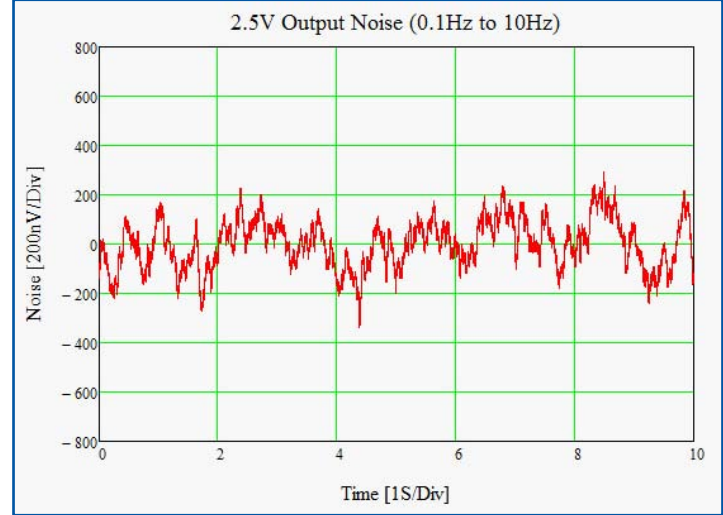
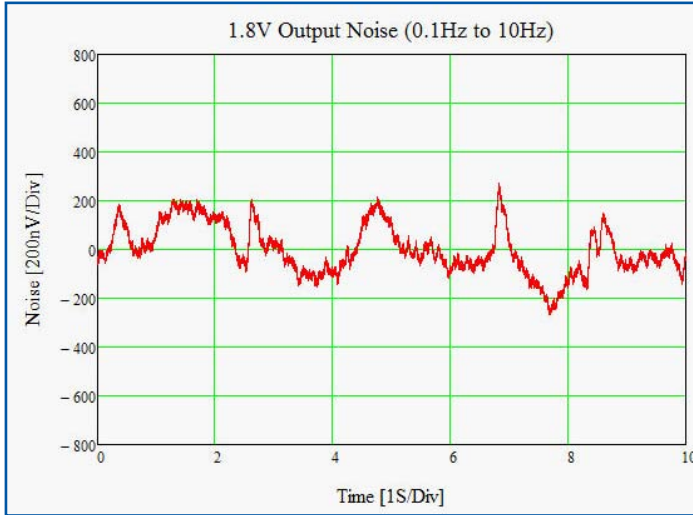
ABPSM-ULN-A



RoHS
Compliant



TYPICAL PERFORMANCE CURVES - LOW FREQUENCY NOISE

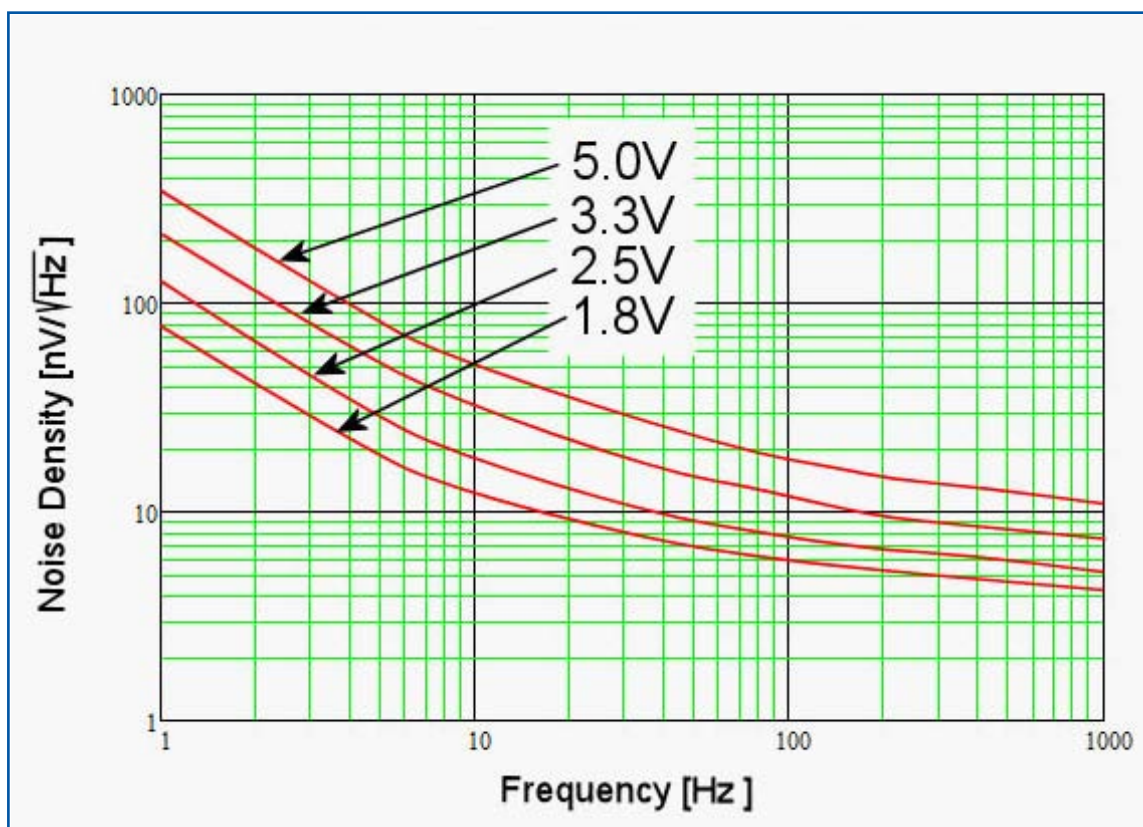


ULTRA LOW NOISE POWER SUPPLY MODULE

ABPSM-ULN-A



LOW FREQUENCY NOISE DENSITY PROFILE



PRODUCT SUMMARY

- ABPSM-ULN-A Power Supply Module is designed to aid engineers seeking ultra clean power source for bench testing
- Ideally suited for Audio, RF, DDS, μ Wave circuits and product testing
- Low cost, small form-factor solution – can be incorporated on production lines for final testing of electronic products
- Eliminates noise-contribution-uncertainty from the power source; during design characterization, design validation, product testing in both design & production environment
- A must have to test VCOs, Crystal Oscillators, PLL Synthesizers, Mixers, Amplifiers and any sub-circuit requiring ultra clean power source
- A low cost replacement for expensive Power Supply solutions, while offering superior noise performance
- Abracon is currently designing single-channel-board-level solutions that can be incorporated in customer designs to bias noise sensitive circuitry. Please contact Abracon for further details.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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