

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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AA25D, AA25E and AA13A

AA25D, AA25E and AA13A Series

Total Power	25 Watts / 12.5 Watts
Input Voltages	5V
# of Outputs	Single



SPECIAL FEATURES

- Six sided shielding
- Efficiency to 86% typical
- Fixed frequency switching
- 5 year warranty

ENVIRONMENTAL

Operating ambient temperature range: -40°C to +60°C

Baseplate: 95°C max

Storage Temperature: -40°C to +105°C

Humidity (non condensing): 5% to 95%

MTBF: 512,000 hours (MIL HDBK-217)

SAFETY

UL 1950 Recognition pending

ELECTRICAL SPECIFICATIONS

Input

Input range ..... 4.5 - 5.5 VDC

Input capacitance AA25D/E 300µF; AA13A 200µF

Efficiency F.L. ..... 86% (typical)

Output

Output voltage ..... 3.3V nominal

Voltage tolerance ..... ±1.0% max

Line regulation (@FL) ..... ±0.5%

Load regulation ..... ±1%; 10% - FL

Trim range ..... ±10% of nominal voltage

Noise/ripple ..... 50mV p-p Bandwidth 20Mhz (see note 3)

Short circuit ..... Continuous Protection

Transient response ..... 500µsec 50% step load change to within 1% Vout

Temperature coefficient ..... +0.02%/C max

Switching frequency ..... 350KHz (typical)

Isolation

I/O isolation ..... Non-Isolated

ASTEC ASIA
6F., China Dyeing Works Building
382-392 Castle Peak Road
Tsuen Wan, N.T., Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426

ASTEC EUROPE
Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 01384-842211
Facsimile: 01384-843355

ASTEC AMERICA
5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

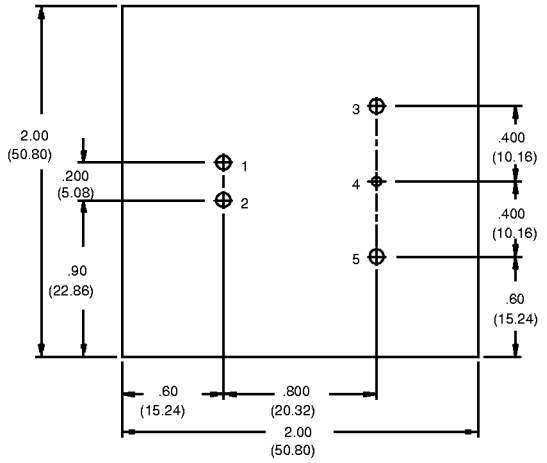
ORDERING INFORMATION

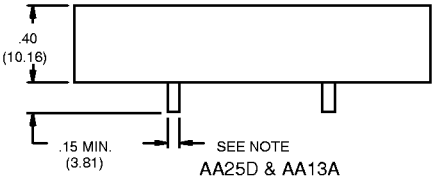
Input Voltage	Output 1 Voltage	Maximum Power	Model Number
4.5 - 5.5 V	3.3V @ 8A	25W	AA25D-005L-033S
4.5 - 5.5V	3.3V @ 8A	25W	AA25E-005L-033S
4.5 - 5.5 V	3.3V @ 4A	13W	AA13A-005L-033S

Please contact Astec for information on other output voltages, power ranges and configurations.

DIMENSIONS

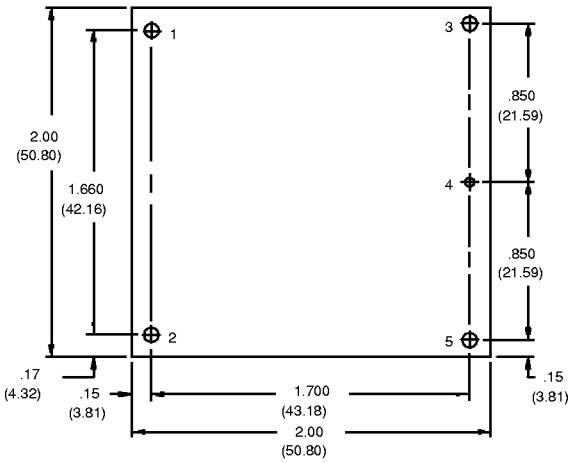
AA25D-005L-033S
BOTTOM VIEW

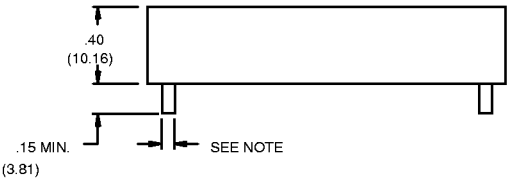




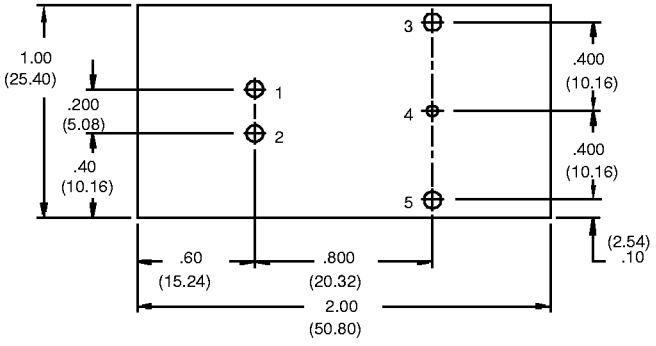
AA25D & AA13A
SIDE VIEW

AA25E-005L-033S
BOTTOM VIEW





AA25E
SIDE VIEW



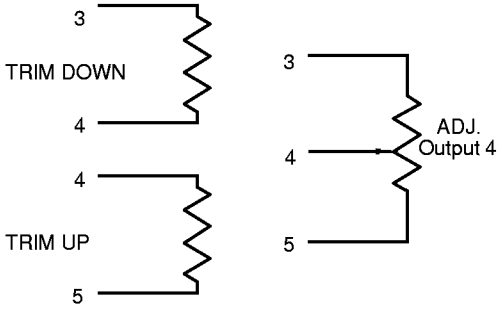
AA13A-005L-033S
BOTTOM VIEW

PIN ASSIGNMENTS

Output

1. +Vin
2. -Vin
3. +Vout
4. Trim
5. Common

TRIM METHOD



Note: Pins 0.04" in diameter
Case Material: Zinc

NOTES

1. All specifications are typical at nominal line, full load and 25° C unless otherwise stated.
2. Specifications subject to change without notice.
3. An external 3.3uF Tantalum capacitor is recommended to be placed from +Vout to -Vout..

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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