



Unit measures 0.8"W x 1.25"L x 0.4"H

- 24-Pin DIP Package
- 5 Volt Input
- 500 or 1500V Isolation
- Short Circuit Protection
- High Efficiency
- Input PI Filter



| Model Number | Output Voltage | Output mAmps | Input Range | Efficiency |
|----------------------|----------------|--------------|-------------|------------|
| SINGLE OUTPUT | | | | |
| ASD35-5S3(H or M)* | 3.3 VDC | 600 | 4.5-6.0 VDC | 72% |
| ASD35-5S5(H or M)* | 5 VDC | 600 | 4.5-6.0 VDC | 75% |
| ASD35-5S12(H or M)* | 12 VDC | 250 | 4.5-6.0 VDC | 79% |
| ASD35-5S15(H or M)* | 15 VDC | 200 | 4.5-6.0 VDC | 77% |
| DUAL OUTPUT | | | | |
| ASD35-5D5(H or M)* | +/-5 VDC | +/-300 | 4.5-6.0 VDC | 77% |
| ASD35-5D12(H or M)* | +/-12 VDC | +/-125 | 4.5-6.0 VDC | 76% |
| ASD35-5D15(H or M)* | +/-15 VDC | +/-100 | 4.5-6.0 VDC | 75% |

* Specifying "H" or "M" designates a choice of Pinouts (Please see Mechanical Specifications) and a choice of 500VDC Isolation ("M" Version) or 1500VDC Isolation ("H" Version).

5V Input 3 WATT Modular DC/DC Converters

ASD35 series

INPUT SPECIFICATIONS

| | |
|-----------------------|-------------------------|
| Input Voltage Nominal | 5 VDC |
| Input Voltage Range | 4.5-6.0 VDC |
| Input Surge Voltage | 10VDC max. (100mS max.) |
| Input Filter | PI Type |

OUTPUT SPECIFICATIONS

| | | |
|---------------------------|---------------------|---------------|
| Voltage and Current | See Selection Chart | |
| Load Regulation | Single (10% to FL) | +/- 0.5% |
| | Dual (25% to FL) | +/-1% |
| Line Regulation | (HL-LL) | +/- 0.5% |
| Temperature Coefficient | +/-0.05%/°C | |
| Ripple/Noise(Single/Dual) | 3.3V/5V | 100mVp-p max. |
| | 12V/15V | 1% p-p max. |
| Voltage Accuracy | +/- 2% | |
| Voltage Balance | (Dual) | +/- 1% |
| Short Circuit Protection | Continuous | |
| Efficiency | See Selection Chart | |
| Start Up Time | 10mS max. | |

GENERAL SPECIFICATIONS

| | |
|------------------------|-----------------------------|
| Input-Output Isolation | 500VDC ("M" Versions) |
| | 1500VDC ("H" Versions) |
| Isolation Resistance | 10-9nth Ohm min. |
| Isolation Capacitance | 250pF, typ. |
| Switching Frequency | 100Khz |
| Safety | UL60950 - "H" Versions Only |

ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------|---------------------------------|
| Oper. Temperature | -25 to +71°C (See Derate Curve) |
| Case Temperature | 100°C max. |
| Storage Temperature | -40 to +100°C * |
| Humidity | 95% max., Non Condensing |
| Cooling | Free Air Convection |
| MTBF (MIL-STD-217F) | 2000K Hrs. |
| | MIL-HDBK-217F |
| | Ground Benign, 25°C |

PHYSICAL SPECIFICATIONS

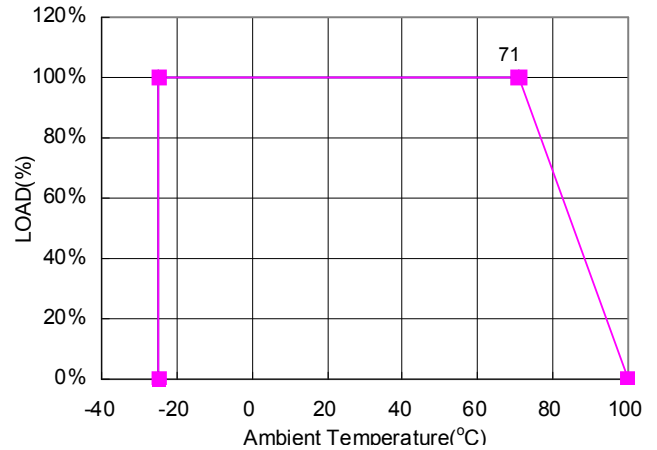
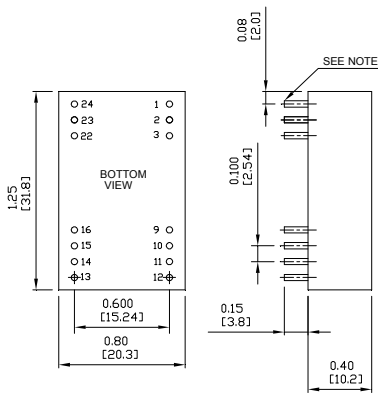
| | |
|---------------|------------------------|
| Case Material | Black coated Copper |
| | w. Non-conductive base |
| Construction | Fully Encapsulated |
| Weight | 0.5 oz, (13g) |
| Dimensions | 1.25"x0.8"x0.4" |

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

MECHANICAL DIMENSIONS & DERATE

NOTE: Pin Size is 0.02 ±0.002Inch (0.5±0.05mm)DIA
 All Dimensions In Inches (mm)
 Tolerances Inches: X.XX= ±0.02 , X.XXX= ±0.010
 Millimeters: X.X= ±0.5 , X.XX=±0.25



| PIN CONNECTION | | | | | | | | | |
|----------------|---------------|-----|-------------|-----|---------------|---------------|-----|-------------|-----|
| Pin | 500 VDC | | | | 1.5K & 3K VDC | | | | |
| | Single Output | | Dual Output | | Pin | Single Output | | Dual Output | |
| | DIP | SMD | DIP | SMD | | DIP | SMD | DIP | SMD |
| 1,24 | +V Input | | +V Input | | 1,24 | NP | NC | NP | NC |
| 2,23 | NC | | -V Output | | 2,3 | -V Input | | -V Input | |
| 3,22 | NC | | Common | | 4,5 | NP | NC | NP | NC |
| 4 | NP | NC | NP | NC | 9 | NC | | Common | |
| 5 | NP | NC | NP | NC | 10,15 | NC | | NC | |
| 9 | NP | NC | NP | NC | 11 | NC | | -V Output | |
| 10,15 | -V Output | | Common | | 12,13 | NP | NC | NP | NC |
| 11,14 | +V Output | | +V Output | | 14 | +V Output | | +V Output | |
| 12,13 | -V Input | | -V Input | | 16 | -V Output | | Common | |
| 16 | NP | NC | NP | NC | 20,21 | NP | NC | NP | NC |
| 20,21 | NP | NC | NP | NC | 22,23 | +V Input | | +V Input | |

* NP-NO PIN
 * NC-NO CONNECTION WITH PIN