



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
<b>SINGLE OUTPUT</b>				
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%
<b>DUAL OUTPUT</b>				
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**

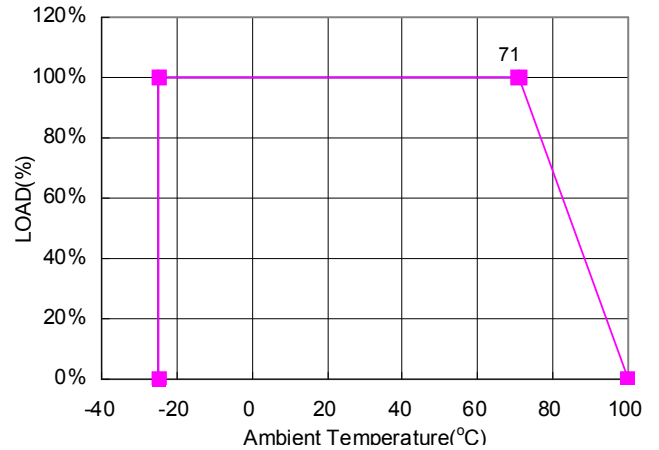
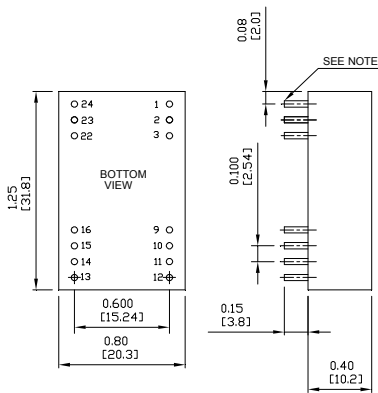
Case Material	Black coated Copper
	w. Non-conductive base
Construction	Fully Encapsulated
Weight	0.5 oz, (13g)
Dimensions	1.25"x0.8"x0.4"

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