

### Features

- 2:1 & 4:1 Wide Input Range Voltage
- Regulated Output
- Single or Dual Output
- 1500VDC Isolation
- Potting Material : Epoxy(Flammability to UL94V-0)
- Pin Material : Brass, Solder Coated
- Case Material: Nickel-Coated Copper with Non-Conductive Base
- Over Voltage Protection(clamp)
- Short Circuit Protection : Automatics recovery
- 1 year warranty



### Electrical Characteristics

Vin	Input Voltage for AMB08	9~18VDC	
	Input Voltage for AMC08	18~36VDC	
	Input Voltage for AMD08	36~75VDC	
	Input Voltage for AMF08	9~36VDC	
	Input Voltage for AMG08	18~75VDC	
Fs	Switching Frequency	300kHz (typ.)	
Po	Output Power Range	8W	
Vo	Output Voltage Range	See rating chart	
Io	Output Current Range	See rating chart	
Acc	Output Voltage Accuracy	Io=Full load, Vin=Typ., at 25°C	2.0% (typ.)
Eff	Efficiency	Io=Full load, Vin=Typ., at 25°C	70~83%
REG-i	Line Regulation	Io=Full load, Vin=Vmax to Vmin, at 25°C	1.0% (max.)
REG-o	Load Regulation	Io=20% to 100%, Vin=Typ., at 25°C	Single Output 0.5% (max.)
			Dual Output 2.0% (max.)
OCP	Over Current Protection	Io=Full load, Vin=Typ., at 25°C	110~116%
Trp	Time of Transient Response	Load of 75% to 100%	300µS (max.)
Vp-p	Ripple & Noise(Peak to Peak)	Io=Full load, Vin=Typ., at 25°C	1% (typ.)
TC	Temperature Coefficient	All output	±0.05%/°C

**Note:** The Ripple & Noise which is 5VDC & 3.3VDC are 80mV(max).  
All specifications are measured at typical input, full load and 25°C unless otherwise noted.

### Environmental

To	Operating Temperature	Without derating	-40~75°C
	Maximum Case Temperature		95°C (max.)
Ts	Storage Temperature		-55~115°C
Hr	Relative Humidity		0~95%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		1M Hrs (min.)
Cool	The Cooling Condition is Free		
Filter	Internal Capacitor		

### Safety Specification

Vio	Dielectric With Standing Voltage for input to output	Input to output	1500VDC (min.)
Vioc	Dielectric With Standing Voltage for input or output to case	Input or output to case	1500VDC (min.)
Ris	Isolation Resistance		1000M (min.)
EP	Potting Material is Epoxy which is flammability to UL94V-0		
CISPER	EMI requirements for CISPER-22	Io-Full load, Vin=Typ., At 25°C	A CLASS
FCC	EMI requirements for FCC PART-15	Io-Full load, Vin=Typ., At 25°C	A CLASS

**Note:** For meeting CISPER and FCC, some filters must be added. (Please refer Emissions Solution)

### Application:

- Automatic Control System
- Industry Control System
- Medical System
- Distributed Power Architectures

### Safety Approvals:

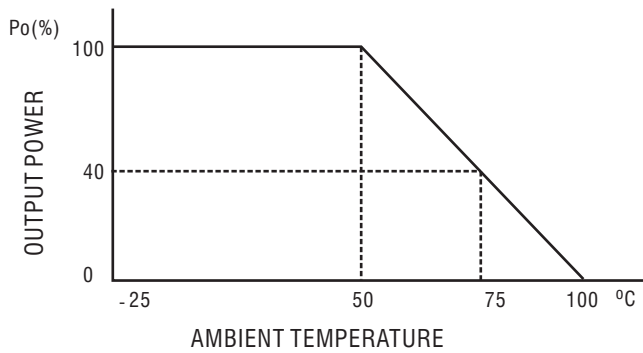


### Selection Chart :

Model Number	Output Voltage	Output Voltage	Output Current	Efficiency
AMB08-101	9~18VDC (Nominal:12V)	3.3VDC	1.60A	70%
AMB08-102		5VDC	1.60A	75%
AMB08-105		12VDC	0.66A	81%
AMB08-106		15VDC	0.53A	81%
AMB08-202		±5VDC	0.80A	75%
AMB08-205		±12VDC	0.33A	80%
AMB08-206		±15VDC	0.26A	80%
AMC08-101	18~36VDC (Nominal:24V)	3.3VDC	1.60A	73%
AMC08-102		5VDC	1.60A	78%
AMC08-105		12VDC	0.66A	82%
AMC08-106		15VDC	0.53A	83%
AMC08-202		±5VDC	0.80A	79%
AMC08-205		±12VDC	0.33A	82%
AMC08-206		±15VDC	0.26A	82%
AMD08-101	36~75VDC (Nominal:48V)	3.3VDC	1.60A	73%
AMD08-102		5VDC	1.60A	77%
AMD08-105		12VDC	0.66A	82%
AMD08-106		15VDC	0.53A	83%
AMD08-202		±5VDC	0.80A	77%
AMD08-205		±12VDC	0.33A	82%
AMD08-206		±15VDC	0.26A	83%
AMF08-101	9~36VDC (Nominal:24V)	3.3VDC	1.60A	70%
AMF08-102		5VDC	1.60A	75%
AMF08-105		12VDC	0.66A	79%
AMF08-106		15VDC	0.53A	80%
AMF08-202		±5VDC	0.80A	75%
AMF08-205		±12VDC	0.33A	79%
AMF08-206		±15VDC	0.26A	80%
AMG08-101	18~75VDC (Nominal:48V)	3.3VDC	1.60A	73%
AMG08-102		5VDC	1.60A	81%
AMG08-105		12VDC	0.66A	81%
AMG08-106		15VDC	0.53A	81%
AMG08-202		±5VDC	0.80A	77%
AMG08-205		±12VDC	0.33A	80%
AMG08-206		±15VDC	0.26A	80%

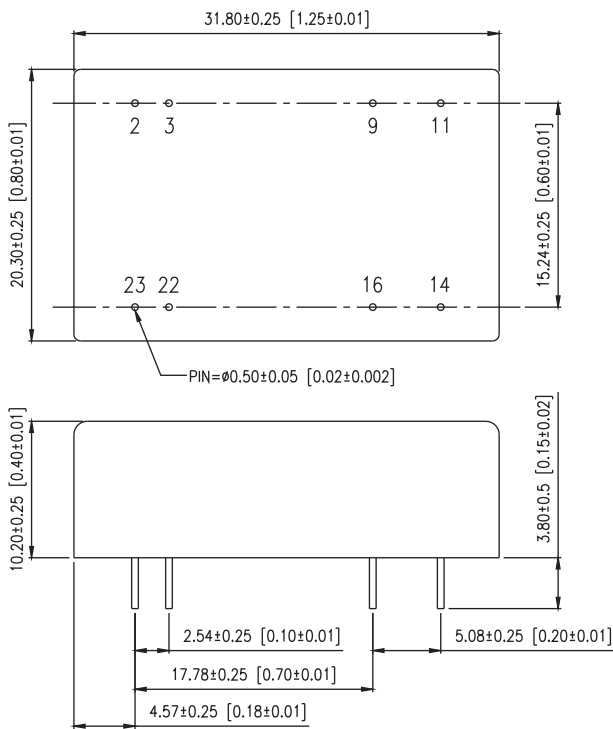
\* The typical efficiency is measured at nominal input, 25°C and at the module terminals.

### Derating Curve :



Note: At nominal input, Full load and cooling is natural convection.

### Mechanical Specifications :



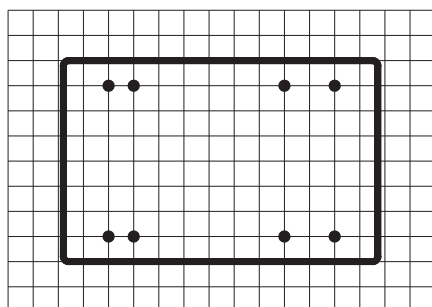
### Pin Connections :

Pin	Single	Dual
22 & 23	+Vin	+Vin
2 & 3	- Vin	- Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common

Note:

1. Dimensions are shown in mm.
2. Weight: 18gs.

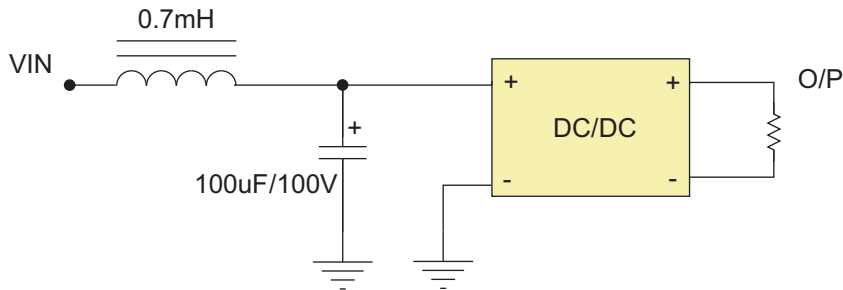
Recommended Pin Patterns  
Bottom View (2.54mm / 0.1inch grids)



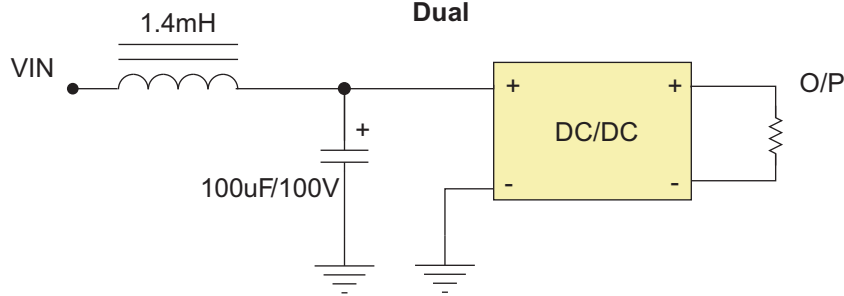
Tolerance	Millimeters	Inches
	X ±0.25	.XX ±0.01
	XX.XX ±0.25	.XXX ±0.01
Pin	±0.05	±0.002

## Emissions Solution : Conducted / ESD / RS / EFT / SURGE / CS / PFMF

Single



Dual



**Note:** This graph meet EN 55022:2006+A1:2007 Class A