

Features:

- * 2 : 1 Wide Input Range Voltage
- * Regulated Output
- * 24Pin DIP Package
- * 1500VDC Isolation
- * Potting Material: Epoxy (Flammability to UL94V-0)
- * Case Material: Non-Conductive Black Plastic (Flammability to UL94V-0)
- * EMI Meets to EN55022 Class A
- * Remote On/Off Control (Option)
- * 3 year warranty



RoHS2
2011/65/EU

Applications:

Automatic Control System
Industry Control System
Medical System
Distributed Power Architectures

Rating Chart:

MODEL NO.	Input Voltage	Output Voltage	Output Current		Typ. Efficiency (%)	Capacitive Load Max. μ F
	(VDC)	(VDC)	Min. (A)	Max. (A)		
AMA03A-101	4.5~9 VDC (Nominal: 5V)	3.3	0.075	0.75	71	3300
AMA03A-102		5	0.06	0.60	74	3300
AMA03A-105		12	0.025	0.25	78	3300
AMA03A-106		15	0.02	0.20	78	3300
AMA03A-202		\pm 5	0.03	0.30	74	1000
AMA03A-205		\pm 12	0.012	0.125	78	1000
AMA03A-206		\pm 15	0.01	0.10	78	1000
AMB03A-101	9~18 VDC (Nominal: 12V)	3.3	0.075	0.75	77	3300
AMB03A-102		5	0.06	0.60	80	3300
AMB03A-105		12	0.025	0.25	84	3300
AMB03A-106		15	0.02	0.20	84	3300
AMB03A-202		\pm 5	0.03	0.30	80	1000
AMB03A-205		\pm 12	0.012	0.125	84	1000
AMB03A-206		\pm 15	0.01	0.10	84	1000
AMC03A-101	18~36 VDC (Nominal: 24V)	3.3	0.075	0.75	78	3300
AMC03A-102		5	0.06	0.60	81	3300
AMC03A-105		12	0.025	0.25	84	3300
AMC03A-106		15	0.02	0.20	84	3300
AMC03A-202		\pm 5	0.03	0.30	81	1000
AMC03A-205		\pm 12	0.012	0.125	84	1000
AMC03A-206		\pm 15	0.01	0.10	84	1000

MODEL NO.	Input Voltage	Output Voltage	Output Current		Typ. Efficiency (%)	Capacitive Load Max. μ F
	(VDC)	(VDC)	Min. (A)	Max. (A)		
AMD03A-101	36~75 VDC (Nominal: 48V)	3.3	0.075	0.75	78	3300
AMD03A-102		5	0.06	0.60	81	3300
AMD03A-105		12	0.025	0.25	84	3300
AMD03A-106		15	0.02	0.20	84	3300
AMD03A-202		\pm 5	0.03	0.30	81	1000
AMD03A-205		\pm 12	0.012	0.125	84	1000
AMD03A-206		\pm 15	0.01	0.10	84	1000

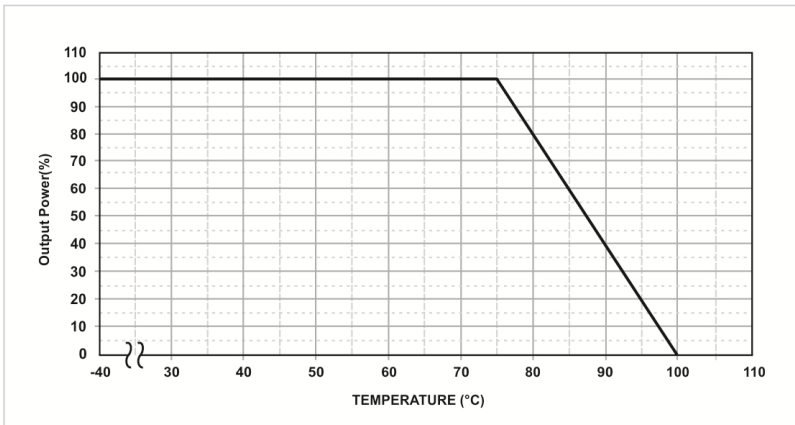
Electrical Characteristics:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
Vin	Input Voltage for AMA03A		4.5	5	9	VDC
	Input Voltage for AMB03A		9	12	18	VDC
	Input Voltage for AMC03A		18	24	36	VDC
	Input Voltage for AMD03A		36	48	75	VDC
Fs	Switching Frequency			300		kHz
Po	Output Power Range	See Rating Chart		3		W
Acc	Output Voltage Accuracy	Io=Full load, Vin=Typ.,@25°C			1.0	%
n	Efficiency Full Load, Vin=Nominal	Detail to see Rating Chart				
Δ Voi	Line Regulation	Full Load, Vin=Vmax to Vmin @25°C			0.3	%
Δ Vol	Load Regulation	Io=10% to 100% Vin= Typ.,@25°C			1.0	%
Vp-p	Ripple & Noise (Peak to Peak)	20MHz			45	mV
Tc	Temperature Coefficient	All output			0.02	%/°C
Vio	Dielectric With Standing Voltage for input to output	Input to output	1500			VDC
Ris	Isolation Resistance	Input to output	1G			ohm
	Isolation Capacitance	Input to output			500	pF

Environmental:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
To	Operating Temperature	Detail to see Fig.1	-40		75	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		125	°C
	Max case Temperature		-40		90	°C
Ho	Operating Humidity	non-condensing			95%	RH
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		1M		Hrs
EP	Potting Material is Epoxy which is flammability to UL94V-0					
Cooling	Natural Convection					

Derating Curve:

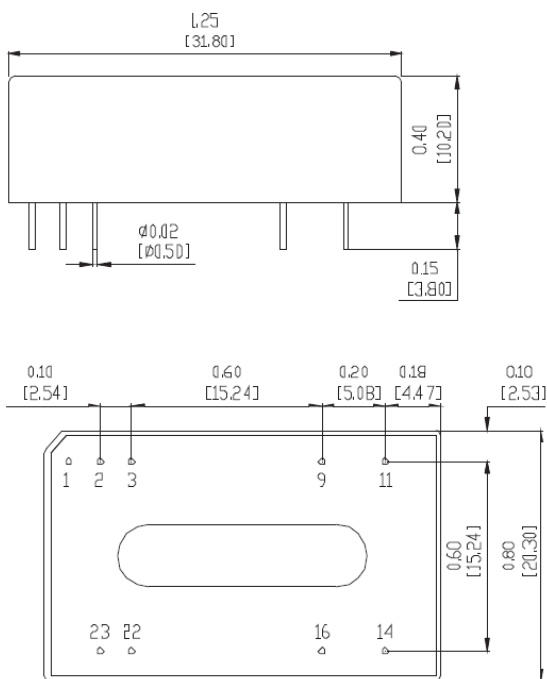


External Functions Specifications:

Remote Control Function ---Enable High						
Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Sd	System Disable	V-Remote	-0.5		0.8	V
		I-Remote			-600	μA
Se	System Enable	V-Remote	2.5		Vin-max	V
		I-Remote			-500	μA
		Floating Remote ON/OFF Pin				

Note : Control Voltage Reference to Negative Input

Mechanical Dimensions : < UNIT: inch [mm] >



Pin	Single	Dual
1	No Pin(CTRL)	No Pin(CTRL)
2,3	-Vin	-Vin
9	No Pin	Common
11	N.C.	-Vout
14	+Vout	+Vout
16	-Vout	Common
22,23	+Vin	+Vin

Note:

- Dimensions are shown in mm.
- Weight: 10gs.
- N.C.: No Connect.
- CTRL: Remote Control ON/OFF.

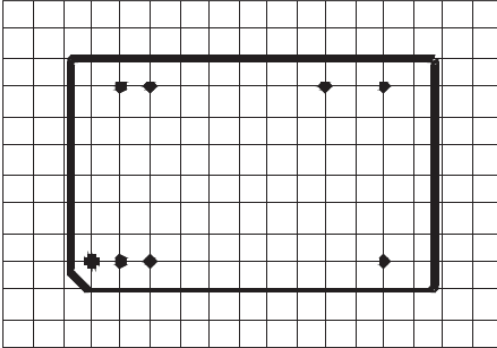
DC/DC

AMX03A Series

3W DC to DC Converter

Grid : 0.1 inch / 2.54 mm
Dot(Drill Hole): $\Phi 0.8 +0.2 / -0$ mm

Single



Tolerance	Millimeters	Inches
	XX.X ± 0.25	XX.X ± 0.01
	XX.XX ± 0.13	XX.XX ± 0.005
Pin	± 0.1	± 0.004

Dual

