DC-DC Astra
AS2A-xxDxxG3C
AS2A-xxSxxG3C

ООО Компания “Элемент”

3000Vdc Isolation Single & Dual Output 2 Watt Dc-Dc Converter

FEATURES:

7PIN SIP Package
High Efficiency up to 85%
Output Continuous Short Circuit Protection
Unregulated Output Types
Internal SMD Construction
Industry Standard Pinout Operating Temperature:-40℃ TO +105℃

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Ripple & Noise		Efficiency
	Vdc	mA	Typ(mVp-p)	Max(mVp-p)	%Typ
AS2A-05S05G3C	5	400	60	100	80
AS2A-05S09G3C	9	222	60	100	82
AS2A-05S12G3C	12	167	60	100	82
AS2A-05S15G3C	15	133	60	100	82
AS2A-12S05G3C	5	400	60	100	82
AS2A-12S09G3C	9	222	60	100	82
AS2A-12S12G3C	12	167	60	100	84
AS2A-12S15G3C	15	133	60	100	84
AS2A-15S05G3C	5	400	60	100	80
AS2A-15S09G3C	9	222	60	100	82
AS2A-15S12G3C	12	167	60	100	83
AS2A-15S15G3C	15	133	60	100	83
AS2A-24S05G3C	5	400	60	100	82
AS2A-24S09G3C	9	222	60	100	84
AS2A-24S12G3C	12	167	60	100	84
AS2A-24S15G3C	15	133	60	100	84
AS2A-24S24G3C	24	84	60	100	85
AS2A-05D05G3C	±5	±200	60	100	80
AS2A-05D09G3C	±9	±111	60	100	82
AS2A-05D12G3C	±12	±84	60	100	82
AS2A-05D15G3C	±15	±67	60	100	82
AS2A-12D05G3C	±5	±200	60	100	82
AS2A-12D09G3C	±9	±111	60	100	84
AS2A-12D12G3C	±12	±84	60	100	84
AS2A-12D15G3C	±15	±67	60	100	84
AS2A-15D05G3C	±5	±200	60	100	80
AS2A-15D09G3C	±9	±111	60	100	82
AS2A-15D12G3C	±12	±84	60	100	83
AS2A-05D15G3C	±15	±67	60	100	83
AS2A-24D05G3C	±5	±200	60	100	82
AS2A-24D09G3C	±9	±111	60	100	84
AS2A-24D12G3C	±12	±84	60	100	84
AS2A-24D15G3C	±15	±67	60	100	84

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			±10	%
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Continuous				
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	5V,9V (10% To 100% F.L)			15	%
Load Regulation	12~24V (10% To 100% F.L)			10	%
Load Regulation	±5V,±9V (10% To 100% F.L)			15	%
Load Regulation	±12~±24V (10% To 100% F.L)			10	%

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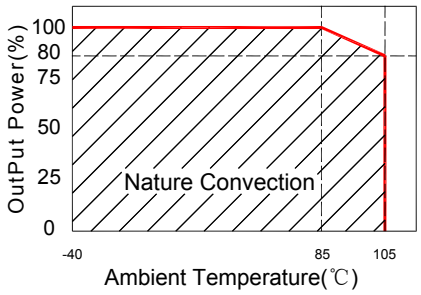
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
Operating Temperature		-40		+105	℃
Storage Temperature		-55		+125	℃
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25℃	3500000			Hours
Weight			2.7		g
Dimensions			19.5x7.1x10.0		mm

Temperature Derating Graph

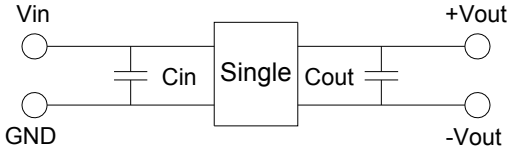


Part Number

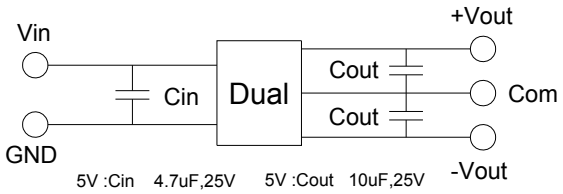
AS2A - 05 D 05 G 3 C
1 2 3 4 5 6 7

1:Series
2:Input Voltage
3:(D) Dual (S) Single Output
4.Output voltage
5:Case
6.3000Vdc Isolation 7: Short Circuit Protection Continuous

Recommended Test Circuit

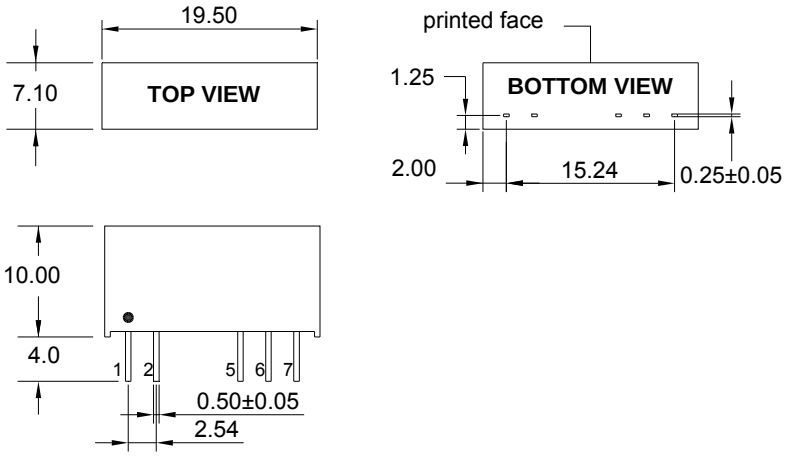


5V :Cin	4.7uF,25V	5V :Cout	10uF,25V
12V:Cin	2.2uF,25V	9V :Cout	4.7uF,25V
15V:Cin	1uF,50V	12V:Cout	2.2uF,25V
24V:Cin	1uF,50V	15V:Cout	1uF,50V
		24V:Cout	1uF,50V

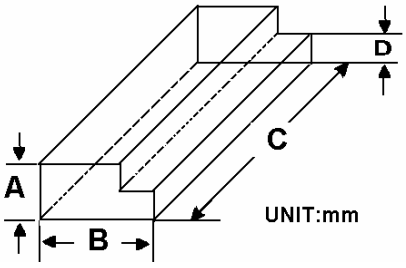


5V :Cin	4.7uF,25V	5V :Cout	10uF,25V
12V:Cin	2.2uF,25V	9V :Cout	4.7uF,25V
15V:Cin	1uF,50V	12V:Cout	2.2uF,25V
24V:Cin	1uF,50V	15V:Cout	1uF,50V

Markings and dimensions



Packaging



UNIT:mm Unless otherwise specified,all tolerances are ±0.25

PIN Connection					
PIN	1	2	5	6	7
Single	+Vin	-Vin	-Vout	No Pin	+Vout
Dual	+Vin	-Vin	-Vout	Com	+Vout

Size(mm)			
A	B	C	D
9.5	16.5	522	5.0

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