

DC-DC Astra AS1-xxDxxGHF

AS1-xxSxxGHF

1000Vdc Isolation Single & Dual Output 1 Watt Dc-Dc Converter

ООО Компания "Элемент"



FEATURES:

7PIN SIP Package

High Efficiency up to 88%

Unregulated Output Types

Internal SMD Construction

Industry Standard Pinout

Operating Temperature: -40°C TO +85°C



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	Package Style
	Vdc	mA	Typ(mVp-p)	Max(mVp-p)	%Typ	
AS1-05S05HF	5	200	25	50	84	H
AS1-05S09HF	9	112	25	50	86	H
AS1-05S12HF	12	84	25	50	86	H
AS1-05S15HF	15	67	25	50	86	H
AS1-12S05HF	5	200	25	50	84	H
AS1-12S09HF	9	112	25	50	86	H
AS1-12S12HF	12	84	25	50	88	H
AS1-12S15HF	15	67	25	50	87	H
AS1-15S05HF	5	200	25	50	83	H
AS1-15S09HF	9	112	25	50	86	H
AS1-15S12HF	12	84	25	50	87	H
AS1-15S15HF	15	67	25	50	87	H
AS1-24S05HF	5	200	25	50	84	H
AS1-24S09HF	9	112	25	50	85	H
AS1-24S12HF	12	84	25	50	86	H
AS1-24S15HF	15	67	25	50	86	H
AS1-48S05GF	5	200	—	100	78	G
AS1-48S09GF	9	112	—	100	81	G
AS1-48S12GF	12	84	—	100	81	G
AS1-48S15GF	15	67	—	100	82	G
AS1-05D05HF	±5	±100	30	60	84	H
AS1-05D09HF	±9	±56	30	60	86	H
AS1-05D12HF	±12	±42	30	60	86	H
AS1-05D15HF	±15	±34	30	60	86	H
AS1-12D05HF	±5	±100	30	60	85	H
AS1-12D09HF	±9	±56	30	60	87	H
AS1-12D12HF	±12	±42	30	60	88	H
AS1-12D15HF	±15	±34	30	60	87	H
AS1-15D05HF	±5	±100	30	60	83	H
AS1-15D09HF	±9	±56	30	60	86	H
AS1-15D12HF	±12	±42	30	60	87	H
AS1-15D15HF	±15	±34	30	60	87	H
AS1-24D05HF	±5	±100	30	60	84	H
AS1-24D09HF	±9	±56	30	60	85	H
AS1-24D12HF	±12	±42	30	60	86	H
AS1-24D15HF	±15	±34	30	60	86	H
AS1-48D05GF	±5	±100	—	100	79	G
AS1-48D09GF	±9	±56	—	100	81	G
AS1-48D12GF	±12	±42	—	100	81	G
AS1-48D15GF	±15	±34	—	100	82	G

Input Specifications

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

ООО Компания "Элемент"

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моб.тел. 8-913-95-95-400

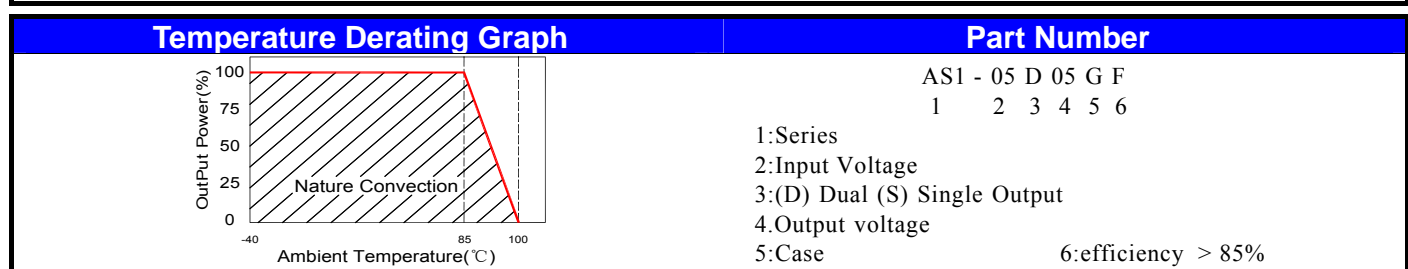
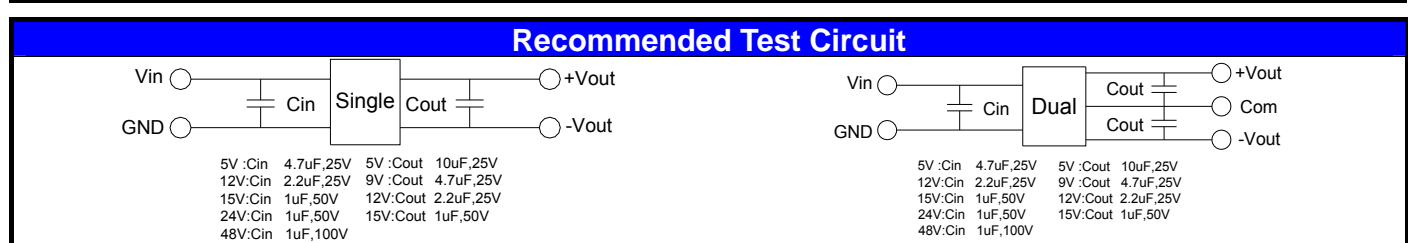
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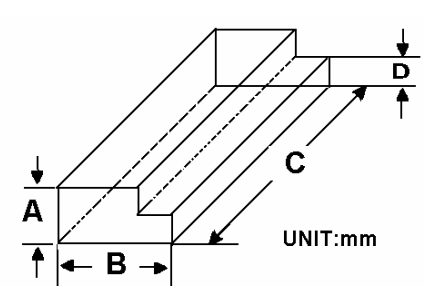
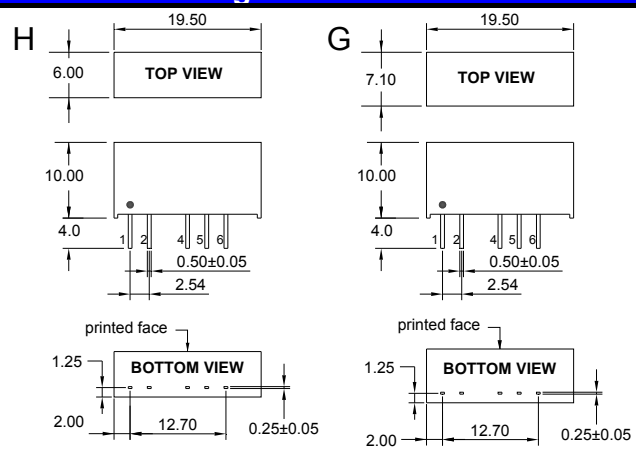
1000Vdc Isolation Single & Dual Output 1 Watt Dc-Dc Converter

Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1 Sec	
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	5V,9V (10% To 100% F.L)			7	%
Load Regulation	12V,15V (10% To 100% F.L)			5	%
Load Regulation	±5V,±9V (10% To 100% F.L)			7	%
Load Regulation	±12V,±15V (10% To 100% F.L)			5	%

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	3500000			Hours
Weight	PackageH or PackageG		2.1 or 2.7		g
Dimensions	PackageH or PackageG		19.5x6.0x10.0 or 19.5x7.1x10.0		mm



Markings and dimensions **Packaging**



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

PIN Connection					
PIN	1	2	4	5	6
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