BXA3 Series 查询"BXA3-12815"供应商 51 ng le and dual output



DC/DC CONVERTERS

3W Wide Input DC/DC Converters

3 Watts in DIL Package

- 9 models including 3.3VDC output
- Wide input ranges 9-18V, 18-36V, 36-75V
- EN55022 conducted emissions level A (optional)
- Continuous short circuit protection
- Operating temperature range -25°C to +105°C
- Input voltage range to ETS300-132-2
- . UL, VDE and CSA safety approvals

The BXA3 Series of DC/DC converters is designed to offer the optimum cost/benefit power solution for a wide variety of applications including public and private telecommunications, industrial systems and process and test equipment. The series consists of 9 models with input voltages of 9-18VDC, 18-36VDC and 36-75VDC, and offers standard output voltages of 3.3V, 5V, 12V and 15V in single and dual output configurations. Continuous short circuit protection, overvoltage protection, 60mV output ripple and EN55022 level A conducted noise compliance minimize design-in time, cost and eliminate the need for external components.











2 YEAR WARRANTY

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

SPECIFICATIONS

OUTPUT SPECIFICATIONS

Voltage accuracy		±1.0%
Line regulation	LL to HL, all output	±2.5%
Load regulation	Full load to no load	±2.5%
Ripple and noise (5Hz to 20MHz)	+5V output	60mV pk-pk, max., 15mV rms
	All others	100mV pk-pk, max., 15mV rms
Temperature coefficient		±0.02%/°C, max.
Over voltage protection	Clamp diode	135% Vout
Short circuit protection		Continuous automatic recovery

INPUT SPECIFICATIONS

Input voltage range	12VDC 24VDC 48VDC	9 to 18VDC 18 to 36VDC 36 to 75VDC
Input filter	Suffix '-F' (See Note 5)	Pi type
Reverse voltage protection	(See Note 7)	Yes
Max. input rise and fall time	Output remains within specification	5V/ms

EMC CHARACTERISTICS

Conducted emissions	EN55022, FCC part 15	Level A
	Suffix '-F' versions	
	(See Notes 5 and 6)	

GENERAL SPECIFICATIONS

Efficiency			See table
Isolation voltage	Input/output	t	500VDC
Switching frequency	Variable	200kl	Hz to1MHz
Approvals and standards		VDE0805, EN609 JL1950, CSA C22	,
Case material			conductive ack plastic
Material flammability		UL	94V-0 min.
Weight		1	5g (0.53oz)
MTBF	MIL-HDBK-	217F 800	,000 hours

ENVIRONMENTAL SPECIFICATIONS

Thermal performance	Operating ambient (See derating curve)	-25°C to +105°C
	Non-operating amb	-40°C to +105°C
	Cooling	Free air convection cooled
Relative humidity	Non-condensing	5% to 95% RH
Altitude	Operating Non operating	10,000 feet max. 40,000 feet max.
Vibration	5Hz to 500Hz	2.5G rms (approx.)





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INPUT	OUTPUT	OUTPUT	INPUT	TYPICAL	REGUL	ATION	MODEL
VOLTAGE	VOLTAGE	CURRENT (1)	CURRENT (2)	EFFICIENCY	LINE (3)	LOAD (4)	NUMBER (5)
9-18VDC	3.3V	600mA	245mA	68%	±2.5%	±2.5%	BXA3-12S3V3
9-18VDC	15.0V	200mA	335mA	75%	±2.5%	±2.5%	BXA3-12S15
18-36VDC	3.3V	600mA	122mA	68%	±2.5%	±2.5%	BXA3-24S3V3
18-36VDC	5.0V	500mA	140mA	76%	±2.5%	±2.5%	BXA3-24S05
18-36VDC	±5.0V	±250mA	140mA	76%	±2.5%	±2.5%	BXA3-24D05
36-75VDC	3.3V	600mA	61mA	68%	±2.5%	±2.5%	BXA3-48S3V3
36-75VDC	5.0V	500mA	69mA	76%	±2.5%	±2.5%	BXA3-48S05
36-75VDC	12.0V	250mA	83mA	76%	±2.5%	±2.5%	BXA3-48S12
36-75VDC	15.0V	200mA	83mA	76%	±2.5%	±2.5%	BXA3-48S15

Notes

- Maximum figure at full load (nominal).
- Low line to high line.
- Full load to no load.
- An optional internal filter is available. When the filter is added, the BXA3 will meet VDE0871-A, VDE0878-A and EN55022-A. Add the suffix '-F' to the model number, e.g. BXA3-12S15-F.
 Conducted noise filtering to EN55022 level B may be accomplished by
- putting the following capacitors across the input pins.

5µF ceramic X7R dielectric type 3µF ceramic X7R dielectric type 12VDC 24VDC

48VDC 1μF ceramic X7R dielectric type
Reverse voltage protection can be implemented by putting a fast blow fuse on the positive input rail. Rate the fuse for 250mA at 48VDC input, 500mA at 24VDC input and 1000mA at 12VDC input.

International Safety Standard Approvals



VDE0805/EN60950/IEC950 Licence No. 5856



L UL1950 File No. E136005



SP CSA C22.2 No. 950 File No. LR41062C





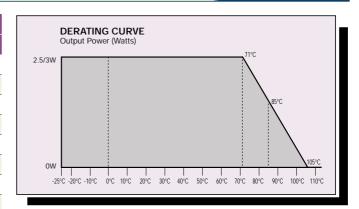
DC/DC CONVERTERS

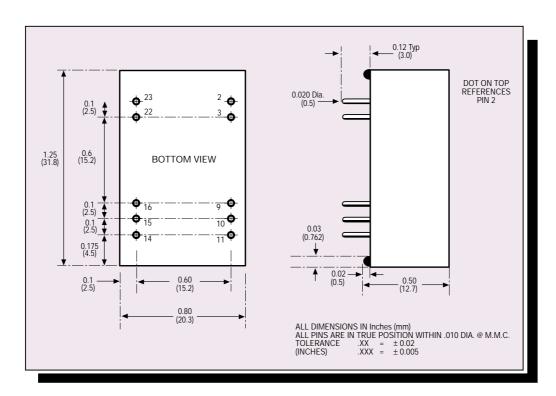
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PIN CONNECTIONS			
PIN NUMBER	SINGLE OUTPUT	DUAL OUTPUT	
2	–Vin	–Vin	
3	–Vin	–Vin	
22	+Vin	+Vin	
23	+Vin	+Vin	
9	No Pin	Common	
10	No Pin	No Pin	
11	No Connection	-Vout	
14	+Vout	+Vout	
15	No Pin	No Pin	
16	-Vout	Common	





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