347W-5.6-SD

30 Watt, isolated, single output buck converter

All parameters defined on Ta=25°C, IoNom = 5.0 ADC and UiNom = 48VDC

ABSOLUTE MAXIMUM RATINGS

parameter	unit	typ
Input peak voltage	VDC	75.00

THERMAL CHARACTERISTICS

parameter	min to max	typ
Ambient temperature range	-40°C / +85°C	
Max. case temperature for thermal shut down [°C]		+90°C
Storage temperature (device not in operation)	-10°C / +65°C	
Relative maximum humidity under storage		75% RH
Storage under worst conditions [in days]		25

COMMUNICATION INTERFACE

parameter	unit	fulfilled	min to max
Option shut down (left open for operation)		\checkmark	

SPECIALS

parameter	unit	fulfilled	conditions	typ
Switching frequency	kHz			120
Efficiency at medium loads	%		0.5loNom	88.00
Efficiency at full loads	%		loNom	87.00
MTTF	h		SN29500 @ 70°	1 700 000
For active loads or parallel connection		\checkmark		
Drives high capacitive loads		\checkmark		
Coupling capacitance input to output	nF			transformer winding only
Insulation strength primary to secondary	VDC			500
Insulation strength primary to case	VDC			500

COMPLIANCE

fulfilled	notes
\checkmark	
	fulfilled √ √ √ √ √ √ √ √ √ √

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INPUT					
parameter	unit	conditions	min	typ	max
Input voltage range	VDC	loNom	16	48	63
No load input current	mA	UiNom		35	
Max. input current	А	UiNom		2	
Input start up voltage	VDC	UiNom		15.0	
Undervoltage lockout	VDC	UiNom		13.0	
Input quiescent current in shutdown mode	mA	UiNom		1.00	
Input current overshoot during soft start ramp up	%	loNom		20	
Generated AC-ripple on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		50	
Generated HF-noise on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		30	

OUTPUT

unit	conditions	min typ max
VDC	loNom	5.6
%	UiNom	3
%	UiNom	0
mVp-p	UiNom/IoNom	10
mVp-p	UiNom/IoNom	20
%	loNom	+/-2.00%
%	loNom	overdamped
W		30
	VDC % % mVp-p mVp-p % %	VDCIoNom%UiNom%UiNommVp-pUiNom/IoNommVp-pUiNom/IoNom%IoNom

CONTROL

parameter	unit	conditions mi	in typ	max
Static load regulation	%	loMinloMax/UiNom	2.0	
Dynamic load change adjusting time	ms	LoadChange 1090%	0.15	
Dynamic load change deviation to nominal output voltage	V	LoadChange 1090%	0.80	
Maximum admissible capacitive load	uF	loNom	infinite	
Initial switch on time	ms	loNom	10	
Softstart ramp up time	ms	loNom	15	

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TECHNICAL DATASHEET

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MECHANICAL

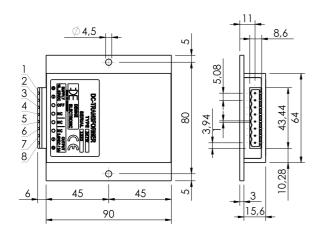
parameter	unit	
Overall dimensions	mm	90x90x19
Weight	g	230

Pin No.	Function	Electrical Determination
1	Vi+	Input voltage positive
2	Vi-	Input voltage negative
3	SD	Shut down
4	NC	Not connected
5	NC	Not connected
6	NC	Not connected
7	Vo-	Output voltage negative
8	Vo+	Output voltage positive

Mechanical dimensions and Pin configuration

All dimensions in mm

Connector type: CCA 2,5/8-G-5,08 P26THR Case: 90x90x19



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