367-28-SD

200 Watt, isolated, single output buck-boost converter with internal decoupling diode All parameters defined on Ta=25°C, IoNom = 7.5 ADC and UiNom = 48VDC

ABSOLUTE MAXIMUM RATINGS

parameter	unit	typ
Input peak voltage	VDC	85.00

THERMAL CHARACTERISTICS

parameter	min to max	typ
Ambient temperature range	-40°C / +80°C	
x. 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	conditions	min to max
Option shut down (left open for operation)		\checkmark		
Shutdown voltage for transformer	VDC		loNom	-0.2 to 2.8

SPECIALS

unit	fulfilled	conditions	typ
kHz			120
%		0.25loNom	92.00
%		0.5loNom	92.00
%		loNom	91.00
h		SN29500 @ 70°	1 300 000
	\checkmark		
	\checkmark		
	\checkmark		
nF			transformer winding only
VDC			1500
VDC			1500
	kHz % % h nF VDC	kHz % % % h / / / / / / / / / / /	kHz % 0.25loNom % 0.5loNom % loNom h SN29500 @ 70° √ √

COMPLIANCE

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

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TECHNICAL DATASHEET

367-28-SD

200 Watt, isolated, single output buck-boost converter with internal decoupling diode

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INPUT					
parameter	unit	conditions	min	typ	max
Input voltage range	VDC	loNom	30	48	80
No load input current	mA	UiNom		28	
Max. input current	Α	UiNom		8	
Input start up voltage	VDC	UiNom		30.0	
Undervoltage lockout	VDC	UiNom		28.0	
Input quiescent current in shutdown mode	mA	UiNom		5.00	
Input current overshoot during soft start ramp up	%	loNom		100	
Generated AC-ripple on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		250	
Generated HF-noise on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		30	

OUTPUT

parameter	unit	conditions	min typ max
Output voltage	VDC	loNom	28.0
No Load output voltage increase	%	UiNom	4
Minimum required load to obtain the specified output voltage	%	UiNom	0
Output voltage accuracy	%	loNom	+/-2.00%
Output voltage overshoot at initial switch-on	%	loNom	overdamped
Rated output power	W		200

CONTROL

parameter	unit	conditions	min typ	max
Static line regulation	%	loNom/UiMinUiMax	1.00	
Static load regulation	%	loMinloMax/UiNom	4.0	
Dynamic load change adjusting time	ms	LoadChange 1090%	0.20	
Dynamic load change deviation to nominal output voltage	٧	LoadChange 1090%	1.20	
Maximum admissible capacitive load	uF	loNom	infinite	
Initial switch on time	ms	loNom	15	
Softstart ramp up time	ms	loNom	10	

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MECHANICAL

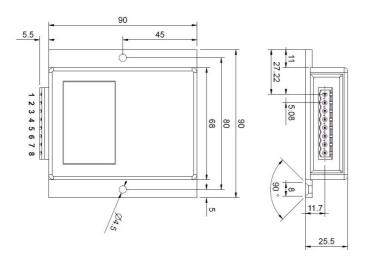
parameter	unit	
Overall dimensions	mm	90x90x25
Weight	g	370

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	Vo+	Output voltage positive
7	GO	Output voltage common
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: FMC 90x90x26



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