



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SERIES: FSK-S30**DESCRIPTION:** ac-dc converter**features**

- encapsulated compact case
- high efficiency
- universal input
- board mounting technology
- built in EMI filter
- 100kHz fixed frequency
- fixed output voltage
- thermal shutdown
- short circuit protection
- low output ripple and noise
- isolated output
- 2 year warranty



model number	input voltage	output voltage	power max.	ripple & noise max.	efficiency (%)
FSK-S30-3R3U	AC 85-264V / DC 110-340V	3.3V @ 6.0A	19.8 W	80 mVp-p	68
FSK-S30-5U	AC 85-264V / DC 110-340V	5V @ 6.0A	30 W	80 mVp-p	78
FSK-S30-12U	AC 85-264V / DC 110-340V	12V @ 2.5A	30 W	120 mVp-p	83
FSK-S30-15U	AC 85-264V / DC 110-340V	15V @ 2.0A	30 W	150 mVp-p	83
FSK-S30-24U	AC 85-264V / DC 110-340V	24V @ 1.25A	30 W	200 mVp-p	86

INPUT

parameter	conditions/description	min	nom	max	units
input frequency		47	(50-60)	440	Hz
input voltage		85		264	VAC
		110		340	VDC
input current	AC input of 110 VAC			0.49	A
	AC input of 220 VAC			0.25	A
inrush current	measured at 110 VAC at full load, cold start			30	A
	measured at 220 VAC at full load, cold start			60	A
leakage current	measured at 110 VAC			0.5	mA
	measured at 220 VAC			0.75	mA

OUTPUT

parameter	conditions/description	min	nom	max	units
voltage tolerance		-2%		+2%	(single and uncomplimentary dual)
				+3%	(complimentary dual)
ripple and noise		-1%		+1%	
line regulation		-1%		+1%	
load regulation		-1%		+1%	
dynamic load regulation		-3%		+3%	
temperature drift		-1%		+1%	
rise time				400	ms
hold-up time		10			ms

SERIES: FSK-S30

DESCRIPTION: ac-dc converter

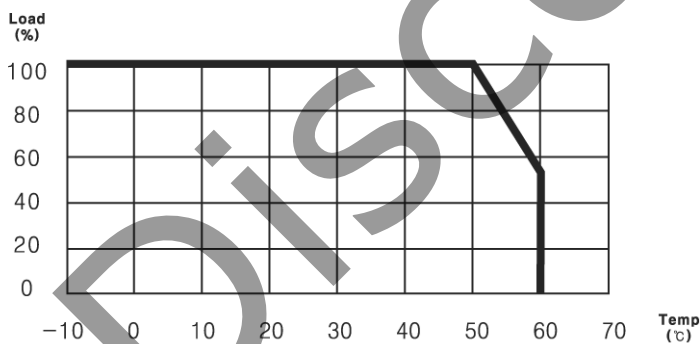
PROTECTION CIRCUIT

parameter	conditions/description
output over current	works at over 105% of the rating and recovers automatically.
over temperature	145 °C

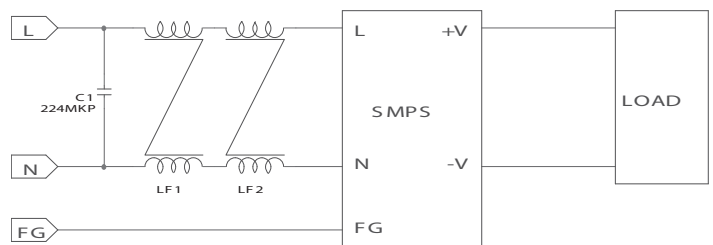
GENERAL

parameter	conditions/description	min	nom	max	units
operating temp.		-10		60	°C
storage temp.		-20		70	°C
operating humid.	non-condensing	20%		90%	RH
storage humid.	non-condensing	20%		90%	RH
isolation voltage	applied for 1 minute, 10mA				
(HI-POT)	primary to secondary, 500 Vdc @ 100 MΩ	3000			VAC
vibration	at 10G 3 minute period	10		55	Hz
impact	50G for 11mS, once on each X, Y, Z axis				
MTBF	3.0 x 10 ⁵				hours
RoHS	yes				
safety	approved to UL60950(E222889), CSA C22.2 NO.60950, CE(EN60950) - through tuv				
warranty	standard warranty length			2	years

DERATING CURVE

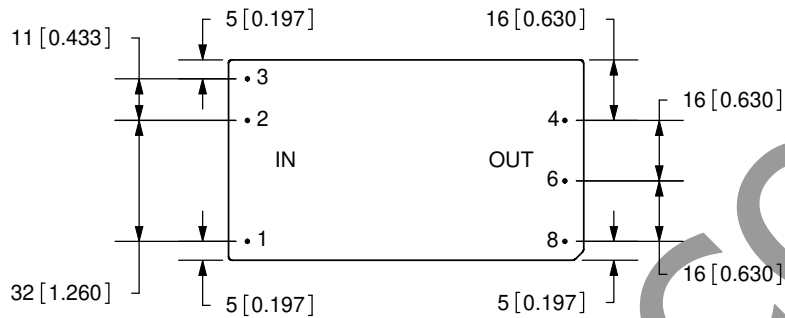
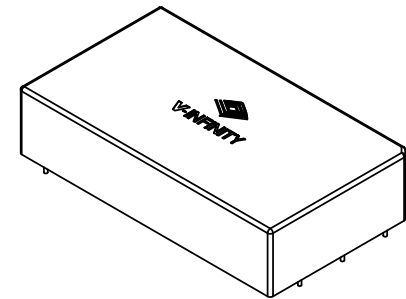
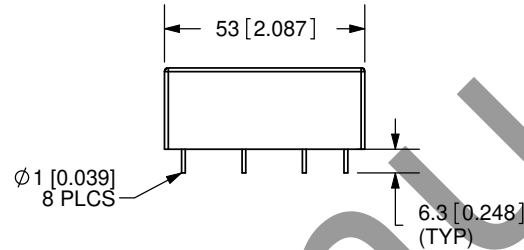
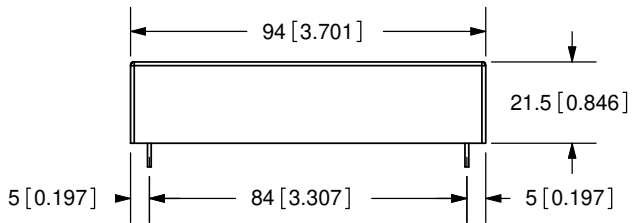


EXTERNAL EMI FILTER



C1 = 220nF / 275Vac, X2 Capacitor
 LF1 = 20mH Common Mode Line Filter, Toroidal core φ14.0mm
 LF2 = 20mH Common Mode Line Filter, Toroidal core φ14.0mm

REV.	DESCRIPTION	DATE
A	NEW DRAWING	9/11/2006
B	corrected pin 5 and 7 output assignments	11/24/2008



TOLERANCE:
±0.3mm UNLESS OTHERWISE
SPECIFIED



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PIN ASSIGNMENTS

Pin Number	Single Output
1	FG
2	AC (N)
3	AC (L)
4	No Connect
5	No Pin
6	+Vout
7	No Pin
8	-Vout

TITLE: AC-DC Converter		REV: B
PART NO. FSK-S30	UNITS: MM [INCHES]	
DRAWN BY: JMS	APPROVED BY:	SCALE: 1:2

PC FILE NAME:
FSK-S30

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Notes:
1. All dimensions are in mm [inches]
2. Weight: 200g or less