



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-S15

DESCRIPTION: switching power supply

features

- UL, C-UL, CB, CE Marking
- encapsulated compact case
- high efficiency
- universal input
- surface mounting technology
- built in EMI filter
- inrush current limit
- 67kHz 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-S15-3R3U	AC 85-264V / DC 110-340V	3.3V @ 3.0A	9.9 W	80 mVp-p	75
FSK-S15-5U	AC 85-264V / DC 110-340V	5V @ 3.0A	15.0 W	80 mVp-p	75
FSK-S15-12U	AC 85-264V / DC 110-340V	12V @ 1.3A	15.6 W	120 mVp-p	78
FSK-S15-15U	AC 85-264V / DC 110-340V	15V @ 1.0A	15.0 W	150 mVp-p	78
FSK-S15-24U	AC 85-264V / DC 110-340V	24V @ 0.65A	15.6 W	200 mVp-p	78

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			0.31	A
	AC input of 220 VAC			0.16	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%	
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-S15

DESCRIPTION: switching power supply

PROTECTION CIRCUIT

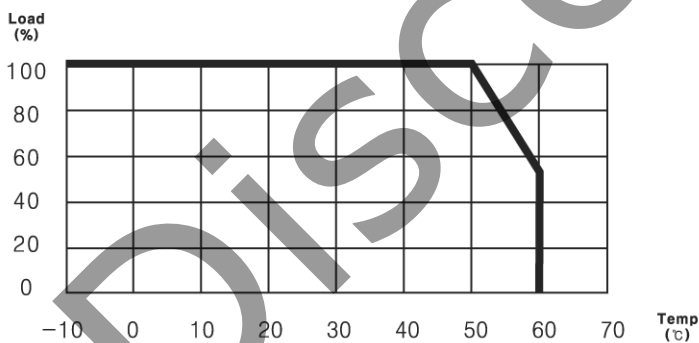
parameter	conditions/description
output over current	works at over 105% of the rating and recovers automatically.
over temperature	145 °C

GENERAL

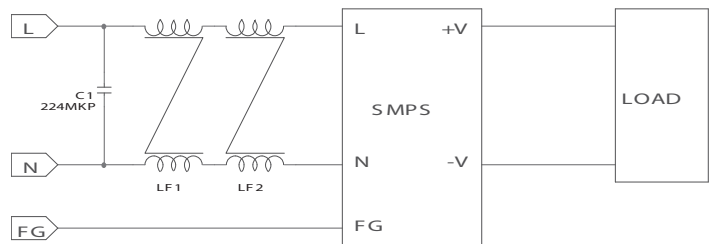
parameter	conditions/description	min	nom	max	units
operating temp.		-10		60	°C
storage temp.		-20		70	°C
operating humid.	non-condensing	20%		90%	RH
storage humid.	non-condensing	20%		90%	RH
isolation voltage (HI-POT)	applied for 1 minute, 10mA primary to secondary, 500 Vdc @ 100 MΩ	3000			VAC
vibration	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, CB(IEC 60950), CE(EN60950)				
EMC ¹	EN61204-3 class B, EN 61000-3-3, EN 61000-3-2 (through TUV)				
warranty	standard warranty length			2	years

NOTE: 1. to meet the standard of EN61204-3 class B, use the external noise filter between L and N

DERATING CURVE

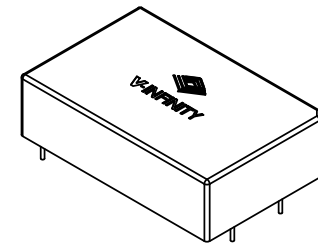
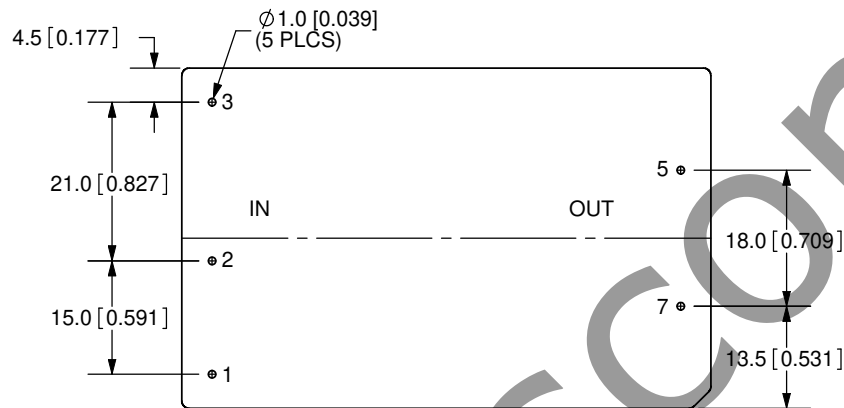
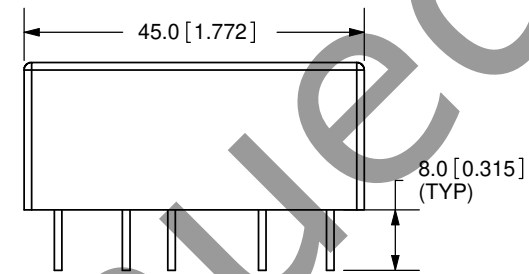
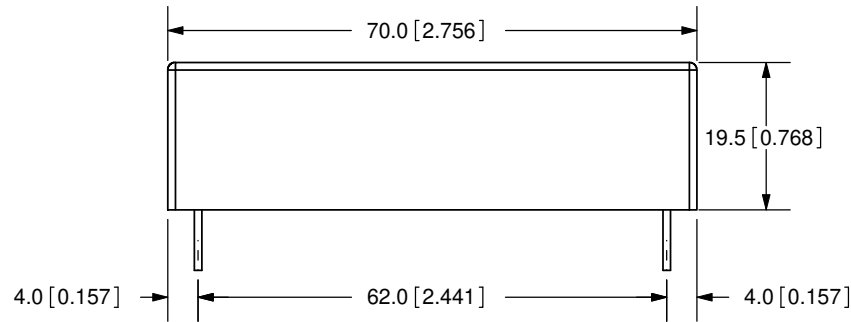


EXTERNAL EMI FILTER



C1 = 220nF / 275Vac, X2 Capacitor
 LF1 = 20mH Common Mode Line Filter, Toroidal core ϕ 14.0mm
 LF2 = 20mH Common Mode Line Filter, Toroidal core ϕ 14.0mm

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



Scale 1:2

TOLERANCE:
±0.3mm UNLESS OTHERWISE
SPECIFIED



PIN ASSIGNMENTS

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



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TITLE: AC-DC CONVERTER		REV: B
PART NO. FSK-S15		UNITS: MM [INCHES]
DRAWN BY: JMS	APPROVED BY:	SCALE: 1:1

PC FILE NAME:
FSK-S15

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Notes:
1. All dimensions are in mm [inches]
2. Weight: 100g or less