



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!



## Contact us

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REV	DESCRIPTION	DATE/APPD
A	DRAWING UNDER CHANGE CONTROL	9/17/04 GEC

## IMPACT ASSESSMENT

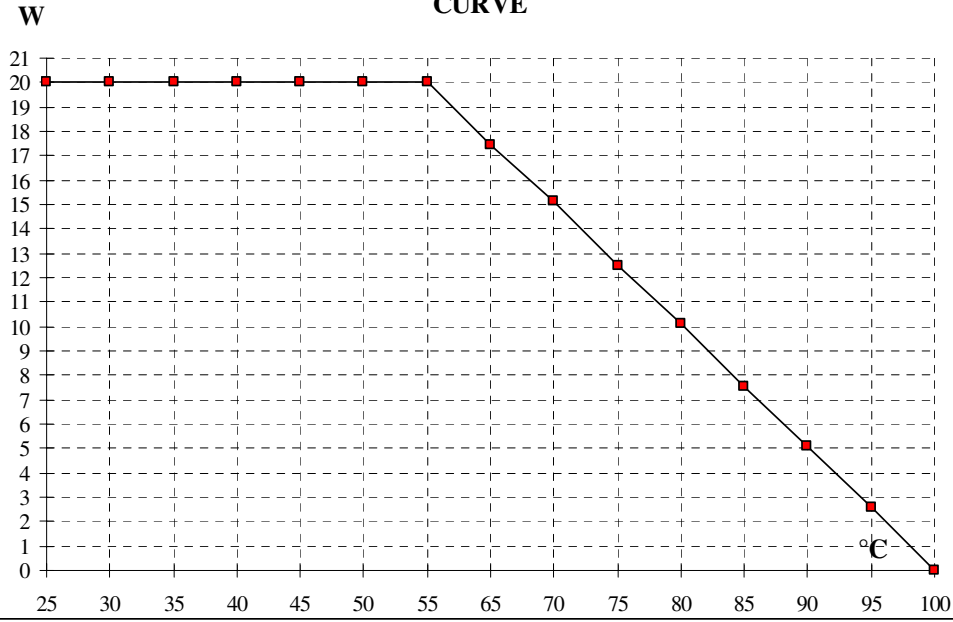
REQUIRED PRIOR TO CHANGE

DRAWN J. LEVRAULT	DATE 11/12/2002	Standard Part - THR-5/3000-15/500-D12			
CHECKED D. DEROSA	DATE 9/15/2004	Special Part - Input Over Voltage Shutdown Disabled			
MARKETING B. SMITH	DATE 9/3/2004				
QA T. BROWN	DATE 9/14/2004				
MFG. D. PAILLE	DATE 9/3/2004	<b>PRODUCT SPECIFICATION</b> <b>THR-30185</b>			
PROJ. ENG. M. ZELFAND	DATE 9/7/2004	SIZE <b>A</b>	CODE IDENT. NO. <b>50721</b>	DWG. NO. <b>43869</b>	REV <b>A</b>
APPD E. WILCOX	DATE 9/3/2004				SHEET 1 OF 4



<b>MODEL: THR-30185</b>	<b>DC-DC CONVERTER PRODUCT SPECIFICATIONS</b>				
9/7/2004					
<b>CURRENT LIMIT INCEPTION @5V:</b>	3.50	3.70	4.10	A	100%
At .985Vout, 24V in, ± loads @ typical currents					
<b>SHORT CIRCUIT CURRENT @5V:</b>		6		A	100%
Vo Recovery Test Only, 24 Vin					
<b>DYNAMIC LOAD RESPONSE</b>					
<b>RECOVERY TIME @5V:</b>		150	300	µSec	100%
5V load switched from 1.35A to 2.7A,±2% of Vo					
<b>GENERAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>ISOLATION VOLTAGE:</b>	750	1000		VDC	100%
<b>ISOLATION RESISTANCE:</b>		TBD		MOHM	GBD
<b>ISOLATION CAPACITANCE:</b>		500		pF	GBD
<b>SWITCHING FREQUENCY:</b>	150	165	180	KHZ	GBD
<b>SYNC-ON/OFF CONTROL PIN:</b>	PROVIDED, FUNCTION TESTED				
<b>MEETS REQUIREMENTS OF:</b>					
<b>UL-1950</b>		YES			GBD
<b>CSA-C22.2 No234</b>		YES			GBD
<b>VDE</b>		N/A			
<b>CALCULATED MTBF:</b>		200,000		HOURS	GBD
<b>MECHANICAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>DIMENSIONS(NOMINAL):</b>		2" x 2" x .45"		INCHES	GBD
<b>WEIGHT (NOMINAL):</b>		2		OUNCES	GBD
		56		GRAM	
<b>CASE MATERIAL:</b>	BAKED ENAMEL STEEL, NON CONDUCTIVE BASE				GBD
<b>EMI/RFI SHIELDING:</b>	FIVE SIDED				GBD
<b>ENVIRONMENTAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>OPERATING AMBIENT TEMPERATURE Ta</b>					
<b>WHERE NO DERATING REQUIRED:</b>	-25		55	°C	GBD
Natural Convection,Vertical mount.					
<b>STORAGE TEMPERATURE</b>	-55		125	°C	GBD
<b>DERATING</b>	AS PER DERATING CURVE				GBD
	<b>DWG. No.</b>	<b>43869</b>	<b>REV.</b>	<b>A</b>	<b>SHT 3 of 4</b>

**THR-30185 OUTPUT POWER TEMPERATURE DERATING CURVE**



**THR-30185 Efficiency Vrs. Vin**

