

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	PRODUCT SPECIFICATION THR-30185			
PROJ. ENG. M. ZELFAND	DATE 9/7/2004	SIZE A	CODE IDENT. NO. 50721	DWG. NO. 43869	REV A
APPD E. WILCOX	DATE 9/3/2004				
				SHEET 1 OF 4	

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

