Flyback, Linear Regulator for Medical Pack (2.5 @ 2mA)

(ACTIVE) PMP2187.5

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Description

This design provides isolated 5V (x2), 3.3V, 2.5V and -5V outputs. All outputs are noise filtered using Low Drop Out (LDO) linear regulators for noise sensitive applications such as medical imaging and data acquisition.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP2187.5
Vin (Max) (V)	4.1
Vin (Min) (V)	4.1
Vout (Nom) (V)	2.5
Iout (Max) (A)	0
Output Power	.005
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync Linear Regulator Flyback- DCM

TI Devices (13)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TL431A	Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
UCC2813-0	Low Power Economy BiCMOS Current Mode PWM	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	Not Available
UCC2813-0-Q1	Automotive Catalog Low Power BiCMOS Current Mode PWM	AC/DC and Isolated DC/DC Power Supply	[illegible]	Not Available

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
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	TO-92 (LP) | 3	Download	Download
	SIP (PK) | 3	Download	-
	SOT (DBV) | 5	Download	Download
	SOT (DCK) | 6	Download	Download
	SOIC (D) | 8	Download	Download
	PDIP (P) | 8	Download	Download
	SOP (PS) | 8	Download	-
	TSSOP (PW) | 8	Download	-
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UCC2813-1	SOIC (D) | 8	Download	Download
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Step 1: Download and install the Ultra Librarian software ZIP: 62MB

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP2187 TEST RESULTS		PDF	1608	11 Jan 2011	35

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP2187 BOM		PDF	22	11 Jan 2011	62
PMP2187 SCHEMATIC		PDF	91	11 Jan 2011	102

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