

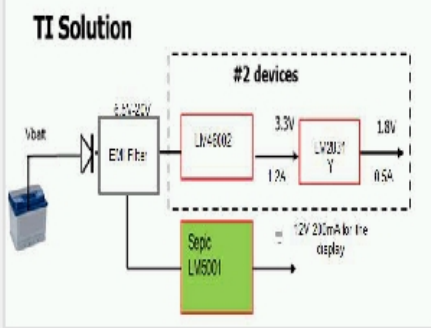
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MPM9487 is a conducted EMI optimized (CISPR 25) 8W SEPIC converter for wide range Vin automotive infotainment cluster applications using the LM50101 regulator IC (used as SEPIC), LM46002 (used as buck) and LM2631Y regulator IC (used as buck). The design accepts an input voltage of 6.5Vin to 20Vin and provides the outputs of 12V @ 250mA, 3.3V @ 1.2A and 1.8V @ 500mA. It features a small size and is an inexpensive and more efficient solution to using boost converters and linear regulators. Only a single differential filter is used for the complete power tree design in an automotive cluster.

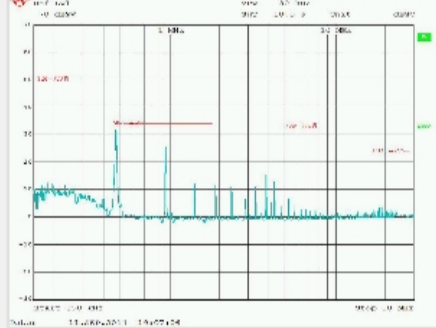
- Optimized layout for EMI performance
- Single differential filter for all the switching converters
- Pass CISPR 25 Class 5 FM radio band without common mode choke
- LM5001 AEC-Q100 qualified version available
- 6.5V to 20V wide Vin range

Full assembly board (shown above) developed for testing and performance validation only, not available for sale.

Querying an InnoDB table over an InnoDB system tablespace name.

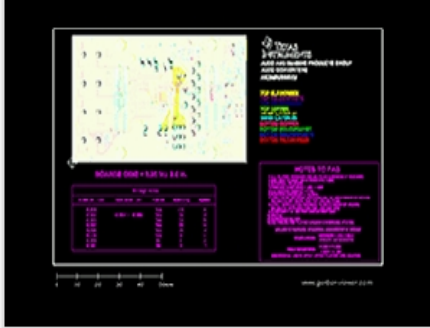
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	PMP9487
V _{in} (Min) (V)	6.5
V _{in} (Max) (V)	20
V _{out} (Nom) (V)	12
I _{out} (Max) (A)	.25
Output Power	3
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Sepic- Synchronous

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LM2831	High Frequency 1.5A Load - Step-Down DC-DC Regulator	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules
LM46002	SIMPLE SWITCHER® 3.5V to 60V, 2A Synchronous Step-Down Voltage Converter	Converter (Integrated	Sample & Buy	View Design Kits & Evaluation
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Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
LM2831	SOT (DBV) 5	Download	Download
	WSON (NGG) 6	Download	Download
LM46002	HTSSOP (PWP) 16	Download	Download
LM5001	SOIC (D) 8	Download	Download
	WSON (NGT) 8	Download	Download

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User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 PMP9487 Test Results		PDF	2138	30 Sep 2014	40

Title	Abstract	Type	Size (KB)	Date	Views
PMP9487 Gerber		ZIP	211	30 Sep 2014	14
PMP9487 BOM		PDF	26	30 Sep 2014	18
PMP9487 Schematic		PDF	262	30 Sep 2014	74

- Automotive Cluster

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