

TEA1721ADB1102

TEA1721 Cubic Charger 5W demo board

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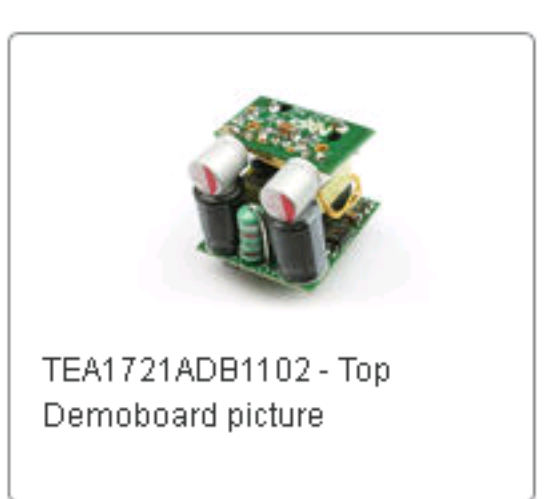
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Demo board description

The TEA1721 demo board is a small and low cost solution for a 5W mobile phone charger or any low power adapter solution. The application is USB1.1 battery charging compliant and operates in constant voltage (CV) or constant current (CC) mode for a proper and controlled charge behaviour of the battery. The switch-mode converter operates in flyback mode at a maximum frequency of around 51 kHz. Overcurrent and short-circuit protection are built in. The power consumption is below 10 mW under no-load conditions.

- ### Features
- IC used: TEA1721AT SOP8 fixed frequency controller
 - Integrated MOSFET
 - Universal mains operation: 90 - 264 V (AC)
 - Output power is 5W (5W/1A typically)
 - Average efficiency: > 76%
 - No load power consumption: <10mW
 - CC-mode: 1.05V
 - Primary sensing
 - Compensation of cable impedance included
 - Small form factor
 - Low component count for a cost effective implementation
 - ENERGY STAR compliant



NXP Design tools

Power

Flyback

Input:

Output Voltage:

Output Current:

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Descriptive summary

Demobox content
Demoboard, Quick start guide

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File name	Title	Type	Format	Date
AN10912	SMPS EMC and layout guidelines	Application note	pdf	2011-02-18
TEA1721BT	HV start-up flyback controller with integrated MOSFET for 5 W applications, 905 Hz burst frequency	Data sheet	pdf	2012-06-07
75017320	NXP GreenChip low-power SMPS controllers TEA172x	Leaflet	pdf	2012-08-20
Gerber_files_TEA1721ADB1102	Gerber files TEA1721ADB1102	Other type	zip	2014-02-14
UM10780	TEA1721ADB1102 GreenChip 5 W QBIC demo board	User manual	pdf	2014-05-07

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Products

Type number	Description	Status	Quick access
TEA1721AT	HV start-up flyback controller with integrated MOSFET for 5 W applications, f~burst= 430 Hz	Production	Download datasheet Order sample
TEA1721BT	HV start-up flyback controller with integrated MOSFET for 5 W applications, f~burst= 905 Hz	Production	Download datasheet Order sample
TEA1721FT	HV start-up flyback controller with integrated MOSFET for 5 W applications, f~burst= 1750 Hz	Production	Download datasheet Order sample

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20-07-2015	FAE SHENZHEN CONTACT DETAILS - PHONE DOES NOT WORK - PROJECT TEA1708	Q >
14-07-2015	What is the Vstartup voltage of the TEA1733T?	Q >
14-07-2015	What is the Vstartup voltage of the TEA1733T?	Q >
24-10-2014	what are the design equations for transformer in tea1752	Q >
24-10-2014	what defines the power output limit for tea1752	Q >
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