

**NCP1075PREGEVK: WIDE MAINS PRE-REG W/15W**

The ac-supply pre-regulator demo board is a universal input, off-line, 15-W output, constant voltage power supply for powering E-meters or white goods applications. This pre-regulator is a specific function added to conventional SMPS, placed between ac-supply rectification and input bulk capacitor, supplying Flyback converter. This pre-regulator allows extra high ac-supply from mains (up to 460 Vac), supporting supply between 2 phases (instead of phase and neutral) without drawback of double input bulk capacitors and corresponding high supply voltage for Flyback converter build with cascade or very high voltage Power MOS transistor. The switching topology is a discontinuous mode flyback converter utilizing the ON Semi NCP1075 monolithic controller with internal MOSFET. The specific default demo board has an output rating of 12 V at 1 A max.

**Evaluation/Development Tool Information**

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1075PREGEVK	Active	Pb-free	WIDE MAINS PRE-REG W/15W	NCP1075STCT3G	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1075PREGEVK Bill of Materials ROHS Compliant	NCP1075PREGEVK_BOM_ROHS - 186 KB	2
Eval Board: Schematic	NCP1075PREGEVK Schematic	NCP1075PREGEVK_SCHEMATIC - 407 KB	0
Eval Board: Test Procedure	NCP1075PREGEVK Test Procedure	NCP1075PREGEVK_TEST_PROCEDURE - 137 KB	0
Eval Board: Gerber	NCP1075PREGEVK Gerber Layout Files (Zip Format)	NCP1075PREGEVK_GERBER - 1040 KB	0
Video	15W Wide Mains Pre-Regulator Evaluation Board - NCP1075PREGEVK Test Procedure	WVD17502/D	

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15W Wide Mains Pre-Regulator Evaluation Board - NCP1075PREGEVK Test Procedure

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