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E Design Support	Home > Support > Design Support > Design Resources > Evaluation Previously Viewed P Boards						
Technical Documentation	NCP3163INVEVB:NCP3163 -15 V/ 500 mA Voltage	Clear List					
Design Resources	Evaluation Board Description Technical Document	ntation					
Design & Development Tools	The NCP3163 Series is a performance enhancement to						
Conversion Services	the popular MC33163 and						
Evaluation Boards	MC34163 monolithic DC - DC						
Evaluation Board Documents	converters. These devices consist of						
Mixed - Signal Foundry Services	an internal temperature compensated reference,						
Sample Kits	comparator,						
Simulation Models	controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch. This controller was						
Software	specifically designed to be incorporated in step -down,						
Product Recommendation Tools	step -up, or voltage -inverting applications with a minimum number of external components. The NCP3163 comes in an exposed pad package which can greatly increase the power dissipation of the built in power						
Video	switch.						
Technical Support	The NCP3163 Voltage Inverting Demo Board is a 150						
	kHz maximum switching frequency board with a 12 V input (9 V - 16 V). The output is -15 V with a load current up to 500 mA.						
	Features and Applications						
	Features						

- ? Output Switch Current in excess of 3.0 A
- 2 3.4 A peak switch current
- ? Frequency is adjustable from 50 kHz to 300 kHz
- ? Operation from 2.5 V to 40 V Input
- ? Externally Adjustable Operating Frequency
- ? Precision 2% Reference for Accurate Output Voltage Control
- ? Driver with Bootstrap Capability for Increased Efficiency
- ? Cycle by Cycle Current Limiting
  ? Internal Thermal Shutdown Protection
- ? Low Voltage Indicator Output for Direct Microprocessor Interface
- ? Exposed Pad Power Package
- ? Low Standby Current

Evaluation Board Information						
Evaluation Board	Short Description	Status	Parts Used	Action		
NCP3163INVEVB	NCP3163 -15 V/ 500 mA Voltage Inverting Evaluation Board	Active	NCP3163PWG	Contact Local Sales Office		

Technical Documents							
Туре	Document Title	Document ID/Size					
Eval Board: BOM	NCP3163INVEVB Bill of Material	NCP3163INVEVB_BOM.PDF - 71.0 KB	0				
Eval Board: Gerber	NCP3163INVEVB Gerber Layout Files (Zip Format)	NCP3163INVEVB_GERBERS.ZIP - 37.0 KB	0				
Eval Board: Schematic	NCP3163INVEVB Schematic	NCP3163INVEVB_SCHEMATIC.PDF - 26.0 KB	0				
Eval Board: Test Procedure	NCP3163INVEVB Test Procedure	NCP3163INVEVB_TEST_PROCEDURE.PDF - 32.0 KB	0				
Eval Board: BOM	NCP3163INVEVB Bill of Materials RoHS Compliant	NCP3163INVEVB_BOM_ROHS.PDF - 56.0 KB	0				

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