

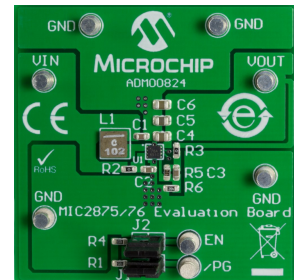
MIC2875/76 High Current Synchronous Boost Regulator ★

Part Number: ADM00824

[BUY IT NOW](#)

[Share](#)

The MIC2875/76 2MHz Synchronous Boost Converter Evaluation Board is used to evaluate and demonstrate Microchip Technology's MIC2875/76 products. The board can be used for an input voltage between 2.5V and 5.5V. It features over current and overvoltage protection, UVLO, bidirectional true load disconnect and bypass mode. It is a compact design, following all MIC2875/76 application recommendations. Two jumpers are used to pull the EN and PG voltage levels to VIN through pull-up resistors. The board is configured for a 5V default output voltage. To change the output voltage, the feedback resistor divider must be re-dimensioned using the datasheet recommendations. Both MIC2875 and MIC2876 can be populated on the same evaluation board. For MIC2875, the frequency in pulse skipping mode is limited to 45kHz, to avoid the audio band interferences.





Features

- Input Voltage Range (VIN): 2.5V - 5.5V with $V_{IN} \leq V_{OUT}$;
- High Efficiency
- PWM Frequency = 2MHz;
- Bi-directional True Load Disconnect;
- OVP, OCP and UVLO;
- Thermal Shutdown;
- Adjustable Output Voltage;
- HyperLight Load (with automatic pulse skipping to PWM mode transition);
- 4.8 A switch peak current;
- 8pin 2mmx2mm UDFN package.

Documentation & Software

[Back To Top](#)

Documents	Last Updated	Size	
★ MIC2875/76 Eval Board (ADM00824) - Gerber Files	10/11/2017 1:18:35 AM	509KB	
★ MIC2875/76 Eval Board (ADM00824) - BOM	10/11/2017 1:18:35 AM	21KB	
★ MIC2875/76 Eval Board (ADM00824) - Schematic	10/11/2017 1:18:05 AM	367KB	

★ MIC2876 - 4.8A ISW, Synchronous Boost Regulator with Bi-Directional Load Discon.	7/7/2016 11:23:29 AM	1MB	
★ MIC2875 - 4.8A ISW, Synchronous Boost Regulator with Bi-Directional Load Discon.	5/11/2016 10:46:57 AM	1MB	
★ MIC2875	10/26/2015 3:01:29 PM	0KB	
★ MIC2876	10/26/2015 3:01:29 PM	0KB	
★ MIC2875-5.0YMT Evaluation Board User Guide	10/19/2015 2:05:26 PM	396KB	



[Products](#) | [Applications](#) | [Design Support](#) | [Training](#) | [Sample and Buy](#) | [About Us](#) | [Contact Us](#) | [Legal](#) | [Investors](#) | [Careers](#) | [Support](#)

©Copyright 1998-2018 Microchip Technology Inc. All rights reserved.