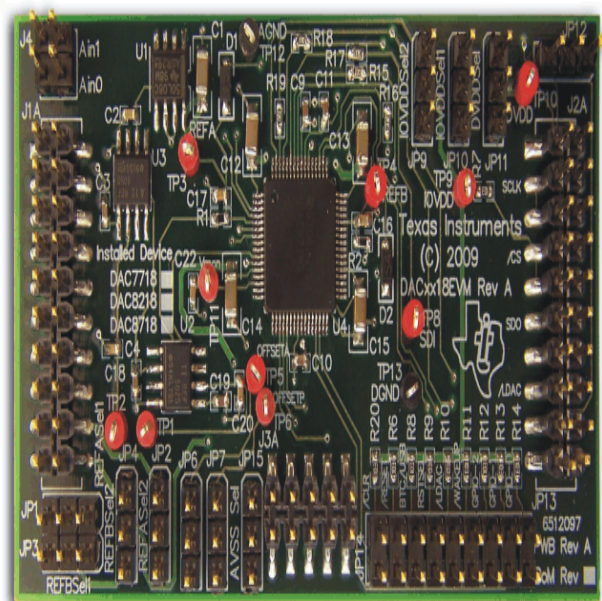


Texas Instruments - DAC7718 - D/A Converter Evaluation Module

Product Overview:

The DACxx18EVM features the DAC7718, DAC8218, or DAC8718 digital to analog converter. The EVM provides a quick and easy way to evaluate the functionality and performance of this high resolution serial input Digital to Analog Converter (DAC). The DACxx18EVM is designed to work by default for a bipolar output range, but it can be configured for a unipolar output range by properly configuring two jumpers. The EVM provides the serial interface header to easily attach to any host microprocessor or TI DSP base system. Installed precision reference voltages of +5VDC and +2.5VDC are selectable using onboard jumpers. REF5050 (+5.0VDC source) and REF5025 (+2.5VDC) are pin compatible with the REF50xx family allowing a wide variety of reference values.



Kit Content:

- Full-featured evaluation board for the DAC7718, a 12-bit, serial input, octal output digital-to-analogue converter.
- Onboard or external reference selection
- Configurable for single- or dual-supply operation
- Wide selection of digital and I/O voltages
- Hardware or software control of control logic

Key Features:

- Bipolar and Unipolar mode of operation is supported
- Contains all support circuitry needed for the DACxx18 family
- Serial interface header to easily attach to TI DSP base communication systems
- Voltage reference options: onboard 5V, onboard 2.5V or external

- Onboard jumpers to control DAC control pins
- Compatible with the TI Modular EVM System

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DAC7718EVM	TI	1825929	74R3112

Associated Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DAC7718SPAG	TI	Octal, 12-bit, High-Accuracy DAC	DAC7718	NA	79R7938
TL750L08CD	TI	Single output, 8V voltage regulator	TL750L08	1510141	76C9329
REF5025AID	TI	Precision voltage reference 2.5V	REF5025	1439622	50M8895
REF5050AID	TI	Precision voltage reference 5.0V	REF5050	1439628	50M8911

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DAC8218EVM	TI	D/A Converter Eval. Board	DAC8218	1825930	74R3113
DAC8718EVM	TI	D/A Converter Eval. Board	DAC8718	1825931	74R3114
DAC7568EVM	TI	12-Bit, Octal Channel, Ultra-Low Glitch, Voltage Output DAC with 2.5V -EVM	DAC7568	1788846	55R2889
DAC8728EVM	TI	A/D Converter Evaluation Module	DAC8728	1813329	72R5216

Document List:

Datasheets:

Part Number	Description	Size
DAC7718	Octal, 12-Bit, Low-Power, High-Voltage Output, Serial Input D/A Converter (Rev. A)	1480KB
TL750L08CD	TL750L, TL751L Low-Dropout Voltage Regulators (Rev. U)	938KB
REF5025AID	Low-Noise, Very Low Drift, Precision Voltage Reference (Rev. E)	945KB
REF5050AID	Low-Noise, Very Low Drift, Precision Voltage Reference (Rev. E)	945KB

Application Notes:

File Name	Size
Thermal and Electrical Properties of Selected Packaging Materials	35KB
Shelf-Life Evaluation of Lead-Free Component Finishes	1305KB
Superposition: The Hidden DAC Linearity Error	106KB
High Speed Data Conversion	385KB
What Designers Should Know About Data Converter Drift	95KB