



6 Watts

Single/Dual Outputs

- Surface mount technology
- MOSFET design
- 4:1 ultra wide input range
- Continuous short circuit protection
- Six-sided shielding

Specifications

INPUT

Voltage Range 4.5 - 5.5Vdc

9 - 36Vdc 20 - 72Vdc All Models

Filtering

OUTPUT

± 2% Voltage Tolerance

Ripple and Noise (PARD) 1% pk-pk (typ) **Short Circuit Protection** Continuous Power Cycle

0.02% / °C

Temperature Coefficient

GENERAL

Regulation:

Line 1.0% Load 5.0% Efficiency 75% (typ) I/O Isolation 500 Vdc Switching Frequency 100kHz (typ)

ENVIRONMENTAL

Operating Temperature -25°C to +71°C No Derating Maximum Case Temp 105°C Storage Temperature -25°C to +105°C Cooling Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he QQA series features the latest in MOSFET design, state of the art surface mount technology, and offers a 4:1 ultra-wide input range, and efficiencies greater than 80% (typ). Features include continuous short circuit protection, 500 Vdc I/O isolation, and an operating temperature range of -25°C to +71°C with no derating. All models are packaged in a six-sided shielded miniature case measuring only 1.0" x 2.0" x 0.4" high.

Applications

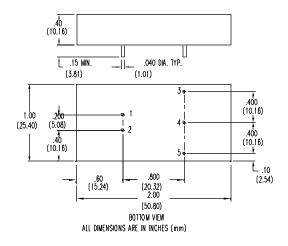
The QQA Series is ideally suited for telecommunications, process control, automatic and portable test equipment.



QQA Series Ordering Information

Input Voltage	Output	Output	Model Number
Range	Voltage	Current	
4.5-5.5 Vdc	5Vdc	1000mA	QQA11-100-05
9-36 Vdc	5 Vdc	1000mA	QQA11-100-18
20-72 Vdc	5 Vdc	1000mA	QQA11-100-48
4.5-5.5 Vdc 9-36 Vdc 20-72 Vdc	9 Vdc 9 Vdc 9 Vdc	660mA 660mA	QQA19-066-05 QQA19-066-18 QQA19-066-48
4.5-5.5 Vdc	12 Vdc	500mA	QQA12-050-05
9-36 Vdc	12 Vdc	500mA	QQA12-050-18
20-72 Vdc	12 Vdc	500mA	QQA12-050-48
4.5-5.5 Vdc	15 Vdc	400mA	QQA13-040-05
9-36 Vdc	15 Vdc	400mA	QQA13-040-18
20-72 Vdc	15 Vdc	400mA	QQA13-040-48
4.5-5.5 Vdc	±12 Vdc	±250mA	QQA22-050-05
9-36 Vdc	±12 Vdc	±250mA	QQA22-050-18
20-72 Vdc	±12 Vdc	±250mA	QQA22-050-48
4.5-5.5 Vdc	±15Vdc	±200mA	QQA23-040-05
9-36 Vdc	±15 Vdc	±200mA	QQA23-040-18
20-72 Vdc	±15 Vdc	±200mA	QQA23-040-48

Dimensions and Connections



Pins 0.040 (1.0) dia x 0.20 (5.1) lg min.

PIN CONNECTIONS Single Output

- 1. +Input
- 2. -Input
- 3. + Output
- 4. No Pin
- 5. -Output

PIN CONNECTIONS Dual Outputs

- 1. +Input
- 2. -Input
- 3. +Output
- 4. Common
- 5. -Output

NOTES:

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. 20% minimum load required on each output

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