

Power Dual Op Amps

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
High voltage, 1.1MHz bandwidth, high output current, 40V, 1.5A per amp, 12-SIP	598-1342-ND◆	23.78 20.09	PA60EU
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1343-ND◆	64.72 56.53	PA74
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1344-ND◆	69.42 60.64	PA74A
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1345-ND	123.52 107.59	PA74M
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1349-ND◆	64.72 56.53	PA76
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1350-ND◆	69.37 60.60	PA76A
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, 7-DPAK	598-1346-ND	15.75 14.18	PA75CC
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7	598-1347-ND	15.75 14.18	PA75CD
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7 (S)	598-1348-ND	17.24 15.52	PA75CX
High voltage, high speed, over 350V/uS slew rate, +/-175V, 150mA, 20-PSOP (SMT)	598-1352-ND◆	50.70 42.71	PA79DK

◆ RoHS Compliant

Video Power Op Amps

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1298-ND◆	235.98 205.53	PA09
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1299-ND◆	276.09 240.47	PA09A
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1300-ND	512.06 483.61	PA09M
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1424-ND	656.47 620.01	PA09M/883
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1311-ND	290.17 260.16	PA119CE
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1312-ND	377.08 338.07	PA119CEA

◆ RoHS Compliant

Power Booster Amps

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
High voltage, 50V/uS slew rate, 160kHz power bandwidth, +/-100V, 2A, TO-3-8	598-1338-ND◆	115.85 100.91	PB50
High voltage, 50V/uS slew rate, 320kHz power bandwidth, +/-150V, 1.5A, 12-SIP	598-1339-ND	143.81 125.26	PB51
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, 12-SIP	598-1340-ND	177.96 155.01	PB51A
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, 12-SIP	598-1451-ND◆	143.81 125.26	PB58
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, TO-3-8	598-1341-ND◆	177.96 155.01	PB58A

◆ RoHS Compliant

Pulse Width Modulation Amps

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
Fully protected, 3-phase brushless DC motor driver, 60V, 5A, 23-SIP(S)	598-1360-ND◆	29.68 26.72	SA305EX
Thermal shut-down, shorted load protection, 60Vs, 5.5Vdd, 10A, 23-SIP(S)	598-1361-ND◆	28.72 24.25	SA56EX
Full-bridge output, external shut-down control, 100V, 30A, MO-127-10	598-1362-ND◆	476.19 426.93	SA01
High voltage, high current, analog or digital inputs, wide supply range, 100V, 30A, 12-DIP	598-1452-ND◆	634.03 598.81	SA03

◆ RoHS Compliant

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
High voltage, 500kHz switching, full bridge output, shutdown input, 60V, 7.5A, 18-DIP	598-1453-ND◆	457.24 409.94	SA07
IGBT outputs, 3 protection circuits, sync or ext osc, 450Vs, 16Vcc, 28A, MO-127-12	598-1363-ND◆	704.30 665.18	SA08
200kHz, 3 protection circuits, sync or ext osc, 200Vs, 16Vcc, 20A, MO-127-12	598-1364-ND◆	592.91 559.98	SA12
Full-bridge PWM amplifier, lowside and highside switches, 80V, 7A, TO-3-8	598-1454-ND	341.39 306.08	SA50CE
H-bridge motor driver/amp, PWM, self-contained low/high side drive circuitry, 80Vs, 16Vcc, 15A, 12-SIP	598-1365-ND	170.49 148.49	SA60
High voltage, high current, 2KW output capability, variable switching frequency, 100V, 20A, 58-DIP	598-1416-ND	303.71 272.30	MSA240KC
High voltage, high current, 9KW output capability, variable switching frequency, 450V, 20A, 58-DIP	598-1417-ND	343.72 308.17	MSA260KC

◆ RoHS Compliant

Sockets

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
Socket, TO-3-8	598-1384-ND◆	25.56 21.59	MS03
Socket, 12-DIP	598-1386-ND◆	40.25 36.23	MS05

Description	Digi-Key Part No.	Pkg. Qty.	Price/Pkg.	Cirrus Logic Part No.
Pin Receptacle for .032 - .046 Diameter Pins	598-1383-ND◆	8	12.56	MS02
Pin Receptacle for .048 - .064 Diameter Pins	598-1385-ND◆	12	23.52	MS04
Mating Socket for .015 - .025 Diameter Pins	598-1387-ND	2	7.84	MS06
Pin Receptacle for .025 - .037 Diameter Pins	598-1478-ND	30	16.14	MS11

◆ RoHS Compliant

Heatsinks

Description	Digi-Key Part No.	Price Each 1 25	Cirrus Logic Part No.
Hardware Kit for DK (12-SIP) Package	598-1366-ND	5.20 4.62	HK26
Heatsink, TO-3	598-1367-ND◆	22.16 18.72	HS01
Heatsink, TO-3	598-1368-ND◆	25.22 21.30	HS02
Heatsink, TO-3	598-1369-ND◆	48.49 40.84	HS03
Heatsink, PDIP	598-1370-ND◆	53.30 44.89	HS06
Heatsink, TO-3	598-1371-ND◆	8.47 7.53	HS09
Heatsink, TO-3 and PDIP	598-1372-ND◆	199.13 173.44	HS11
Heatsink, TO-3	598-1373-ND◆	42.90 36.13	HS14
Heatsink, Vertical Mount	598-1374-ND◆	82.04 71.66	HS20
Heatsink, TO-220	598-1375-ND	2.94 2.46	HS22
Heatsink, SMT	598-1376-ND	10.85 9.77	HS24
Heatsink, Modular Package	598-1377-ND◆	109.92 96.02	HS26
Heatsink, TO-3	598-1472-ND◆	62.15 —	HS04
Heatsink, TO-3	598-1473-ND◆	44.79 —	HS13
Heatsink, PDIP	598-1474-ND◆	67.20 —	HS18
Heatsink, SIP	598-1475-ND◆	18.50 —	HS27
Heatsink, TO-220	598-1476-ND◆	33.08 —	HS29
Clamp, TO-220	598-1482-ND◆	1.56 —	CLAMP04

◆ RoHS Compliant

Evaluation Kits

DB62 Demonstration Board for SA305EX

The DB62 is designed to demonstrate the capabilities of the SA305EX as a 3-phase brushless DC motor driver IC. The PWM inputs to the SA305 are controlled by an on-board microcontroller.

The EVAL49 board is pre-wired for all required and recommended external components.

598-1394-ND (DB62) 195.47

EK01 Evaluation Kit for SA01

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA01 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations.

The board is designed for surface mounting all components except the switching amplifier.

598-1455-ND (EK01) 47.65

(Continued)

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

(UK091) 705





EK03 Evaluation Kit for SA03

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA03 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations.

The board is designed for surface mounting all components except the switching amplifier.

598-1456-ND (EK03) 79.09

EK06 Evaluation Kit for SA60

Fast and easy breadboarding of circuits using the SA60 are possible with the EK06 evaluation kit. The amplifier may be mounted vertically with the HS20 heat sink, or horizontally. Connections are provided for required power supply bypassing recommended protection components, as well as optional current sense resistors.

A large area for component mounting provides flexibility and makes a multitude of circuit configurations possible.

598-1388-ND (EK06) 69.56

EK07 Evaluation Kit for SA07

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA07 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board.

These terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1457-ND (EK07) 67.66

EK09 Evaluation Kit for TO-3 and MO-127 Packages

This kit provides a solid mechanical platform with good shielding and grounding to breadboard eight pin TO-3 packages or the MO-127 package with 0.060" pins. This kit is intended as an alternate for kits dedicated to specific amplifiers. Construction will involve surface mounting and 3D techniques.

Holes are provided to mount standard banana and BNC connectors for I/O.

598-1389-ND (EK09) 61.94

EK11 Evaluation Kit for PA91

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the PA91 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board.

These terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1458-ND (EK11) 38.12

EK13 Evaluation Kit for PA241DF

Fast and easy breadboarding of circuits using the PA241DF is possible with the EK13 evaluation board. The amplifier may be surface mounted directly to the PC board. The PA241DF is soldered to a 2-square inch area of foil on the PC board for heatsinking. This foil heatsink is connected to -Vs. Connections are provided for required power supply bypassing, phase compensation and a current limiting resistor.

A large area for component mounting provides flexibility and makes a multitude of circuit configurations possible.

598-1459-ND (EK13) 29.54

EK15 Evaluation Kit for SA08

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA08 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations.

Only components unique to the EK15 are provided with this kit.

598-1460-ND (EK15) 145.79

EK16 Evaluation Kit for PA92/PA93

This easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the PA92/PA93 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing, compensation, and current limiting are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the circuit board.

These terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1390-ND (EK16) 88.62

EK17 Evaluation Kit for SA12

This easy-to-use kit provides a platform for the evaluation of PWM amplifiers using the SA12 pin-out configuration. It can be used to analyze a multitude of standard or proprietary circuit configurations and is flexible enough to do most standard amplifier test configurations.

Only components unique to the EK17 are provided with this kit.

598-1461-ND (EK17) 117.39

EK19 Evaluation Kit for PA94/PA95

This easy-to-use kit provides a platform for the evaluation of linear power amplifier circuits using the PA94/PA95 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing, compensation and current limiting are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1462-ND (EK19) 27.63

EK26 Evaluation Kit for PA60EU

Fast, easy breadboarding of circuits using the PA60EU are possible with the PB80 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing. The amplifier may be mounted horizontally or vertically. Components are labeled on both sides of the board for ease in probing.

598-1463-ND (EK26) 20.97

EK27 Evaluation Kit for PA50

This easy-to-use kit provides a platform for the evaluation of linear power amplifier circuits using the PA50/PA52 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and terminal pads at the edges of the circuit board.

The terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1464-ND (EK27) 180.19

EK28 Evaluation Kit for PA97

This easy-to-use kit provides a platform for the evaluation of linear power amplifier circuits using the PA97 pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the circuit board.

The terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1465-ND (EK28) 12.39

EK29 Evaluation Kit for Power Booster

This easy-to-use kit provides a platform for the evaluation of the PB51 high voltage power boosters. The PB51 is designed most commonly with a small signal, general purpose op amp. However they can also be used without a driver amplifier.

This kit can be used to analyze a multitude of standard or proprietary circuit configurations.

598-1466-ND (EK29) 39.61

EK33 Evaluation Kit for PA75CX

Fast, easy breadboarding of circuits using PA75CX or PA35CX is possible with the EK33 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing.

Components are labeled on both sides of the board for ease in probing.

This kit is not suitable for PA75CC, PA75CD, PA35CC or PA35CD.

598-1467-ND (EK33) 60.24

EK34 Evaluation Kit for PA240CX

Fast, easy breadboarding of circuits using the PA240CX are possible with the EK34 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing. The amplifier may be mounted horizontally or vertically.

Components are labeled on both sides of the board for ease in probing.

A multitude of circuit configurations are possible, so only several component locations have specific functions and will usually be necessary. This kit is not suitable for use with PA240CC.

598-1391-ND (EK34) 57.97

EK50 Evaluation Kit for PB50/PB58 Power Boosters

This easy-to-use kit provides a platform for the evaluation of the PB50 and PB58 high voltage power boosters. The PB50 and PB58 are designed most commonly in combination with a small signal, general purpose op amp.

However, they can also be used to analyze a multitude of standard or proprietary circuit configurations.

598-1392-ND (EK50) 48.28

(Continued)



EK52 Evaluation Kit for MP230FC/MP240FC

This easy-to-use kit provides for the evaluation of linear power amplifiers circuits using the MP230FC/MP240FC pin-out. With ample breadboarding areas it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and the banana jacks at the edges of the circuit board.

Additionally, an optional BNC connector can be inserted into the hole at the edge of the board and wired to the number 5 terminal pad.

598-1396-ND (EK52) 129.03

EK55 Evaluation Kit for PA62DK

Fast, easy breadboarding of circuits using the PA62DK is possible with the EK55 evaluation kit. The EK55 includes both universal EVAL36 board and the EVAL55 substrate.

The use of the EVAL36 end EVAL55 allows for a large area of breadboarding space to work with while allowing a surface mount substrate of the PA62DK. The PA62DK amplifier may be surface mounted directly to the EVAL55, a thermally conductive but electrically isolated substrate.

598-1468-ND (EK55) 44.32

EK56 Evaluation Kit for MSA240/MSA260

This fast, easy-to-use kit provides a platform for the evaluation of the PWM circuits using the MSA240KC/MSA260KC pin-out. With ample breadboarding area it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and banana jacks at the edge of the circuit board.

598-1469-ND (EK56) 145.66

EK57 Evaluation Kit for MP108FD/MP111FD

This fast, easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the MP108FD and MP111FD pin-out. With ample breadboarding area it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and banana jacks at the edges of the circuit board.

The terminal pads are suitable for soldering standard banana jacks or direct wiring of wires. Additionally, banana jacks and a BNC connector can be inserted into the holes at the edge of the board and wired to the numbered terminal pads.

598-1470-ND (EK57) 94.34

EK59 Evaluation Kit for MP38CL/MP39CL

This fast, easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the MP38CL and MP39CL pin-out. With ample breadboarding area it is flexible enough to analyze a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired.

Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and banana jacks at the edges of the circuit board.

The terminal pads are suitable for soldering standard banana jacks or direct wiring of wires. Additionally, banana jacks and a BNC connector can be inserted into the holes at the edge of the board and wired to the numbered terminal pads.

598-1471-ND (EK59) 116.82

EK60 Evaluation Kit for PA78

The EK60 evaluation kit is designed to provide a convenient way to breadboard design ideas for the PA78EU power operational amplifiers. The EVAL60 evaluation board is pre-wired for all required and recommended external components including the ones for power supply bypassing, compensation and current limiting.

The EVAL60 also includes a breadboard area for constructing your application circuit with provisions for a preamplifier to drive the PA78 inputs.

598-1395-ND (EK60) 107.99

EK61 Evaluation Kit for PA78DK and PA79DK

Fast and easy breadboarding of circuits using the PA78DK or PA79DK is possible with the EK61 evaluation kit. The EK61 includes both the universal EVAL36 board and the EVAL61 substrate. The use of EVAL36 and EVAL61 allows for a large area of breadboarding space to work with while allowing a surface mount substrate for the PA78DK or PA79DK. The PA78DK or PA79DK amplifier may be surface mounted directly to the EVAL61, a thermally conductive but electrically isolated substrate.

The PA78DK or PA79DK is soldered to a DUT foil footprint area the size of the heatslug.

The metal substrate is cost effective and can allow the PA78DK or PA79DK to dissipate power up to the data sheet rating.

598-1398-ND (EK61) 51.36

EK62 Evaluation Kit for SA305EX 3-Phase Motor Driver

The EK62 evaluation kit is designed to provide a convenient way to breadboard design ideas for the SA305EX. The PB119 evaluation board is pre-wired for all required external components including the ones for power supply bypassing and current sensing.

The PB119 also includes a breadboard area for constructing your application circuit.

598-1393-ND (EK62) 160.53

EK65 Evaluation Kit for MP400FC

This kit is designed to provide a convenient way to breadboard and evaluate design ideas for the MP400FC power operational amplifier. It is pre-wired for all required external components. Laid out and labeled to easily configure the high voltage op amp in a noninverting differential configuration for single supply operation using the MP400FC boost supply.

The evaluation board is flexible enough to analyze a multitude of standard or proprietary circuit configurations.

598-1484-ND (EK65) 178.28

Thermal Washers

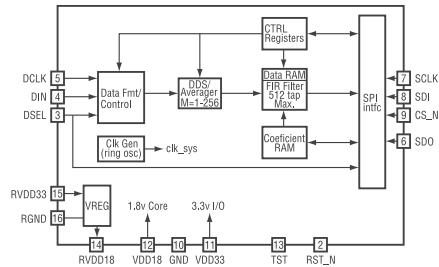


Description	Digi-Key Part No.	Pkg. Qty.	Price/Pkg.	Cirrus Logic Part No.
Thermal Washer, TO-3	598-1378-ND	10	14.92	TW03
Thermal Washer, PSIP	598-1379-ND	10	24.89	TW07
Thermal Washer, PDIP	598-1380-ND	10	20.89	TW10
Thermal Washer, SIP	598-1381-ND	15	22.16	TW12
Thermal Washer, SIP	598-1382-ND	10	23.52	TW13
Thermal Washer, DIP	598-1479-ND	10	10.85	TW05
Thermal Washer, DIP	598-1480-ND	10	13.83	TW09
Thermal Washer, TO-220	598-1481-ND	10	10.10	TW14

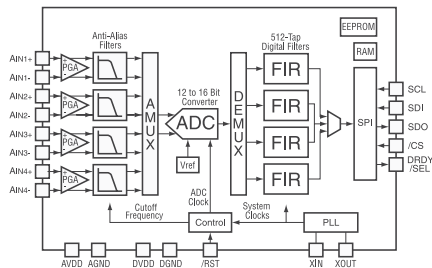


Programmable Digital Filters

The QF1D512 is a single channel, programmable digital filter designed for seamless insertion in the serial data path of a digital signal or used as an FIR coprocessor. The circuit shows the QF1D512 operating between an ADC and an MCU. The device can be programmed using the Quickfilter Design Software which supports most FIR digital filter configurations. The FIR filter has 512 taps capable of generating "brick wall" filters such as a low pass filter with a 1kHz cutoff frequency, 140dB of rejection, and a total transition band of only 10Hz. The filter can operate over a broad range of ADC data rates - from 10spss up to 500kspss and can support ADCs with resolutions ranging from 12 - 24 bits.



The QF4A512 Programmable Signal Converter is a 4-channel, signal conditioner and signal converter. Each channel can be individually programmed for the gain, anti-aliasing filter cutoff frequency, A ~ D sampling frequency, and unique filter requirements. This is accomplished with 4 separate high-precision 512-tap FIR filters. Quickfilter software has been created for rapid device configuration and filter design at performance levels unattainable with analog components.



Description	Digi-Key Part No.	Price Each 1	25	Quickfilter Technologies Part No.
IC SavFIRe Digital Filter 1-Channel 16-QFN	686-1001-1-ND ♦ †	1.62	1.10	QFN1D512-QN-T
IC SavFIRe Digital Filter 1-Channel 16-QFN	686-1001-2-ND † ‡	835.95/1,000	—	QFN1D512-QN-T
IC Programmable Signal Conv. 4-Ch. 32-LQFP	686-1002-ND ♦	9.68	7.62	QF4A512A-LQ-B
Development Kit for QF1D512	686-1003-ND ♦	144.47	—	QF1D512-DK
Development Kit for QF4A512	686-1004-ND ♦	144.47	—	QF4A512-DK
Programmable Adapter for QF4A512-DK	686-1005-ND	131.06	—	QF4A512-PA
Board MSP-MOJO and Expansion Header	686-1006-ND ♦	29.00	—	QF1D512-EZ430
Prototyping Adapter for QF1D512	686-1007-ND ♦	15.45	—	QF1D512-DIPSTER

♦ RoHS Compliant † Cut Tape ‡ Tape and Reel

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783