



Energy Micro (Silicon Labs)



SI8442BB-D-IS1R

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | SI8442BB-D-IS1R                                                                                              |
| Manufacturer/Brand: | Energy Micro (Silicon Labs)                                                                                  |
| Product description | DGTL ISO 2.5KV GEN PURP 16SOIC                                                                               |
| Datasheets:         |  SI8442BB-D-IS1R.pdf        |
| RoHs Status         |  Lead free / RoHS Compliant |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

Specifications of SI8442BB-D-IS1R

|                                      |                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------|
| PART NUMBER                          | SI8442BB-D-IS1R                                                                                               |
| MANUFACTURER                         | Energy Micro (Silicon Labs)                                                                                   |
| DESCRIPTION                          | DGTL ISO 2.5KV GEN PURP 16SOIC                                                                                |
| LEAD FREE STATUS / ROHS STATUS       | Lead free / RoHS Compliant                                                                                    |
| DATA SHEET                           |  SI8442BB-D-IS1R.pdf       |
| VOLTAGE - SUPPLY                     | 2.7 V ~ 5.5 V                                                                                                 |
| VOLTAGE - ISOLATION                  | 2500Vrms                                                                                                      |
| TYPE                                 | General Purpose                                                                                               |
| TECHNOLOGY                           | Capacitive Coupling                                                                                           |
| SUPPLIER DEVICE PACKAGE              | 16-SOIC                                                                                                       |
| SERIES                               | -                                                                                                             |
| RISE / FALL TIME (TYP)               | 3.8ns, 2.8ns                                                                                                  |
| PULSE WIDTH DISTORTION (MAX)         | 2.5ns                                                                                                         |
| PROPAGATION DELAY TPLH / TPHL (MAX)  | 9.5ns, 9.5ns                                                                                                  |
| PACKAGING                            | Tape & Reel (TR)                                                                                              |
| PACKAGE / CASE                       | 16-SOIC (0.154", 3.90mm Width)                                                                                |
| OPERATING TEMPERATURE                | -40°C ~ 125°C                                                                                                 |
| NUMBER OF CHANNELS                   | 4                                                                                                             |
| MOUNTING TYPE                        | Surface Mount                                                                                                 |
| MOISTURE SENSITIVITY LEVEL (MSL)     | 2 (1 Year)                                                                                                    |
| LEAD FREE STATUS / ROHS STATUS       | Lead free / RoHS Compliant                                                                                    |
| ISOLATED POWER                       | No                                                                                                            |
| INPUTS - SIDE 1/SIDE 2               | 2/2                                                                                                           |
| DETAILED DESCRIPTION                 | General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/μs (Typ) CMTI 16-SOIC (0.154", 3.90mm Width) |
| DATA RATE                            | 150Mbps                                                                                                       |
| COMMON MODE TRANSIENT IMMUNITY (MIN) | 25kV/μs (Typ)                                                                                                 |
| CHANNEL TYPE                         | Unidirectional                                                                                                |

Related Tags

|                                             |                                      |                                                 |
|---------------------------------------------|--------------------------------------|-------------------------------------------------|
| Energy Micro (Silicon Labs) SI8442BB-D-IS1R | SI8442BB-D-IS1R Distributor          | SI8442BB-D-IS1R Supplier                        |
| SI8442BB-D-IS1R Price                       | SI8442BB-D-IS1R Pictures             | SI8442BB-D-IS1R Image                           |
| SI8442BB-D-IS1R PDF Datasheet               | SI8442BB-D-IS1R Download Datasheet   | SI8442BB-D-IS1R Datasheet                       |
| SI8442BB-D-IS1R Stock                       | Buy SI8442BB-D-IS1R                  | Buy Energy Micro (Silicon Labs) SI8442BB-D-IS1R |
| Energy Micro (Silicon Labs) SI8442BB-D-IS1R | Energy Micro (Silicon Labs) Supplier | Energy Micro (Silicon Labs) Distributor         |
| Energy Micro (Silicon Labs) SI8442BB-D-IS1R | Energy Micro SI8442BB-D-IS1R         | Energy Micro (Silicon Labs) SI8442BB-D-IS1R     |
| Silicon Laboratories SI8442BB-D-IS1R        | Silicon Labs SI8442BB-D-IS1R         |                                                 |

Related Products

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>SI8445BA-C-IS1</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div> |  <div><b>SI8442BB-D-ISR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>    |
|  <div><b>SI8445BA-D-IS</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>  |  <div><b>SI8442BA-D-IUR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 1KV 4CH GEN PURP 16QSOP<br/>In stock: Out stock<br/><div>RFQ</div></div>  |
|  <div><b>SI8445BA-D-IS1</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div> |  <div><b>SI8442BB-C-IS1R</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>   |
|  <div><b>SI8442BB-D-IS</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: 327 pcs<br/><div>RFQ</div></div>      |  <div><b>SI8442BB-C-IS</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC ISOLATOR 4CH 5.5V 16-SOIC<br/>In stock: 598 pcs<br/><div>RFQ</div></div>         |
|  <div><b>SI8442BB-D-IS1</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>   |  <div><b>SI8442BB-C-IS1</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>    |
|  <div><b>SI8445-B-IS</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 2.5KV GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div>      |  <div><b>SI8445BA-C-IS1R</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC<br/>In stock: Out stock<br/><div>RFQ</div></div> |