



PI2DBS16212A

1.8V, 20Gbps 2-Channel 2:1 Mux/De-Mux Switch

Features

- → 2 Differential Channel, 2:1 Mux/DeMux
- → Support data rate up to 20Gbps
- → Bi-directional operation
- → -3dB bandwith: 14 GHz
- → Low Bit-to-Bit Skew, 3ps
- → Low channel-to-channel skew, 20ps
- → Low insertion loss: -0.94dB@5GHz, -1.16dB@8GHz, -1.25dB@10GHz
- → Returnloss: -20dB@5GHz, -14.7dB@8GHz, -12dB@10GHz
- → Low power consumption: 200µA typ
- → Supply Voltage: 1.8V±10%
- → Industrial Temperature Range: -40°C to 85°C
- → Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- → Halogen and Antimony Free. "Green" Device (Note 3)
- → For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative.

https://www.diodes.com/quality/product-definitions/

Description

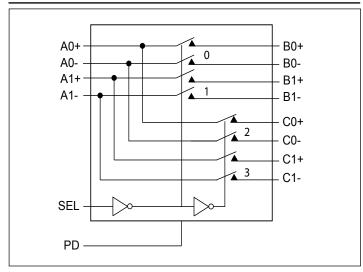
The PI2DBS16212A is a generic high speed passive mux/demux. The configuration is 4 to 2 differential channel with data rate up to 20 Gbps. Based on a unique design technique, it optimizes dynamic electrical characteristics of the device, like low insertion loss, crosstalk and return loss.

It allows high-speed signal switching with minimum attenuation and suitable for multiple signal types like PCle4.0, USB3.2 Gen1, USB3.2 Gen2, 10GE, Thunderbolt 4, SAS3.0, and SATA3.0 signals.

Applications

→ Up to 20 Gbps for applications including USB3.2 Gen1, USB3.2 Gen2, 10GE, Thunderbolt 4, SAS3.0, and SATA3.0

Block Diagram



Ordering Information

Part Number	Package Code	Description
PI2DBS16212AZREX	l <i>7</i> R	24-Contact, Very Very Thin Quad Flat No-Lead (TQFN)

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/
- EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.

 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. E = Pb-free and Green
- 5. X suffix = Tape/Reel

单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))