

製品概要

NBSG72A: 2 x 2 Crosspoint Switch, SiGe Differential, 2.5 V / 3.3 V, with Output Level Select

技術情報は、データシートをご参照ください。



The NBSG72A is a high-bandwidth fully differential 2 X 2 crosspoint switch with Output Level Select (OLS) capabilities. This is a part of the GigaComm family of high performance Silicon Germanium products. The device is housed in a low profile 3 X 3 mm 16-pin QFN package. Differential inputs incorporate internal 50 Ω termination resistors and accept NECL (Negative ECL), PECL (Positive ECL), LVCMOS/LVTTL, CML, or LVDS. The OLS input is used to program the peak-to-peak output amplitude between 0 and 800 mV in five discrete steps. The SELECT inputs are single-ended and can be driven with either LVECL or LVCMOS/LVTTL input levels.

特長

- Maximum Input Clock Frequency > 7 GHz Typical
 - Maximum Input Data Rate > 7 Gb/s Typical
 - 200 ps Typical Propagation Delay (OLS = FLOAT)
 - 55/45 ps Typical Rise/Fall Times (OLS = FLOAT)
 - Selectable Swing PECL Output with Operating Range: VCC = 2.375 V to 3.465 V with VEE = 0 V
 - Selectable Swing NECL Output with NECL Inputs with Operating Range: VCC = 0 V with VEE = -2.375 V to -3.465 V
 - Selectable Output Levels (0 mV, 200 mV, 400 mV, 600 mV or 800 mV Peak-to-Peak Output)
 - 50 Ω Internal Input Termination Resistors
 - Single-ended LVECL or LVCMOS/LVTTL Select Inputs (SELA, SELB)
 - Failure management system to automatically re-route data
- For more features, see the data sheet

アプリケーション

- Interfacing between standard SDH equipment and DWDM equipment to select which lambda (wavelength) to be transmitted.
- Routing reference clocks to SERDES/Framers to support Metro Applications using MULTI-RATE devices
- Telecom/Datacom switching
- Serial digital video routing
- Fanout Buffering

電氣的仕様

製品	Compliance	Status	Input/Output Ratio	Channels	Input Level	Output Level	V _{CC} Typ (V)	f _{Max} Typ (MHz)	t _{Jitter} Typ (ps)	t _{skew(OO) Max} (ps)	t _{pd} Typ (ns)	Package Type
NBSG72AMNG	Pb-free Halide free	Active	2:1	2	CML	ECL	2.5	7000	0.17	25	0.205	QFN-16
					ECL							
					LVDS							
					CMOS							
NBSG72AMNR2G	Pb-free Halide free	Active	2:1	2	ECL	ECL	2.5	7000	0.17	25	0.205	QFN-16
					LVDS							
					CML							
					CMOS							

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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