Low-Ohmic Dual Single-Pole Double-Throw Analog Switch

NX3L4684

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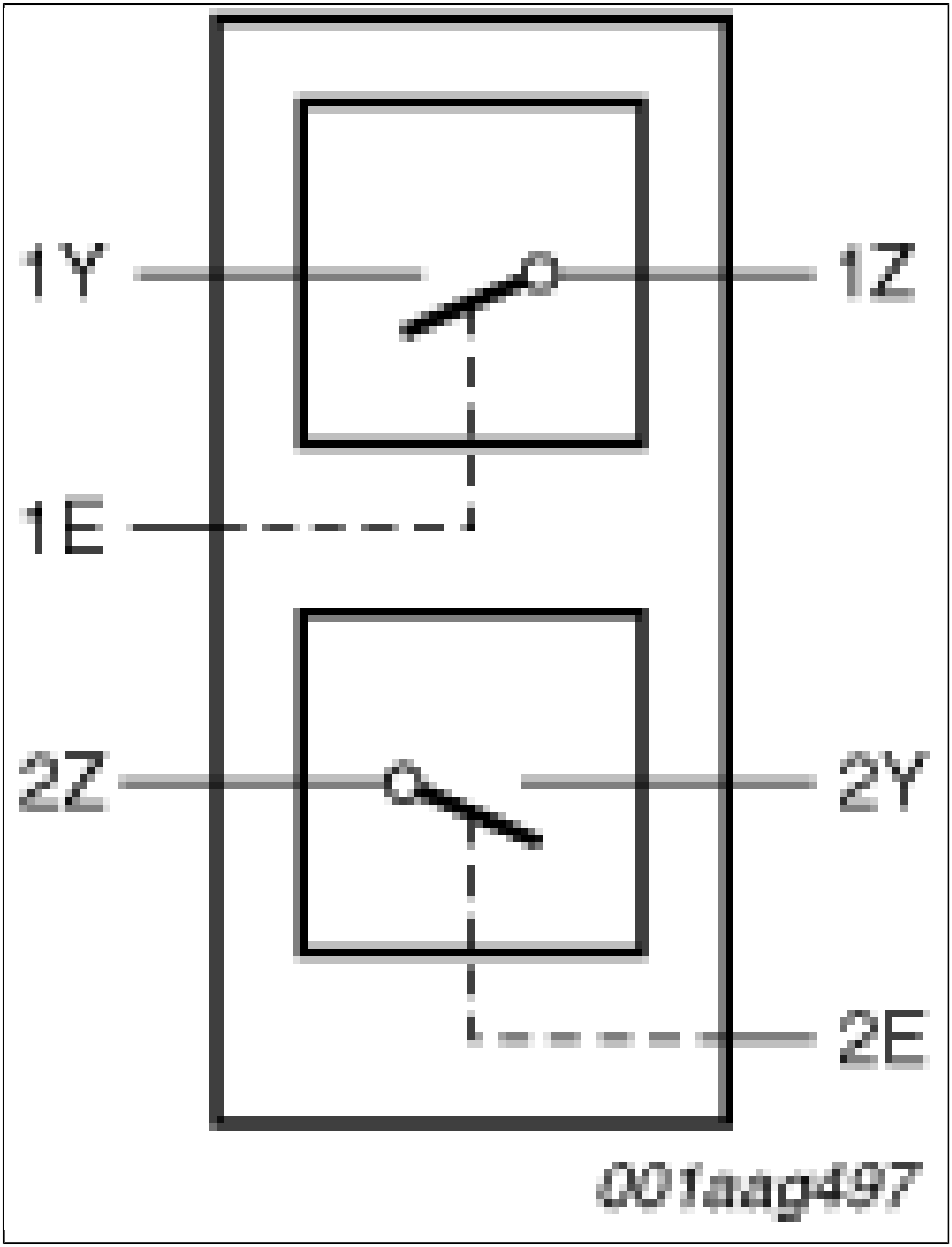
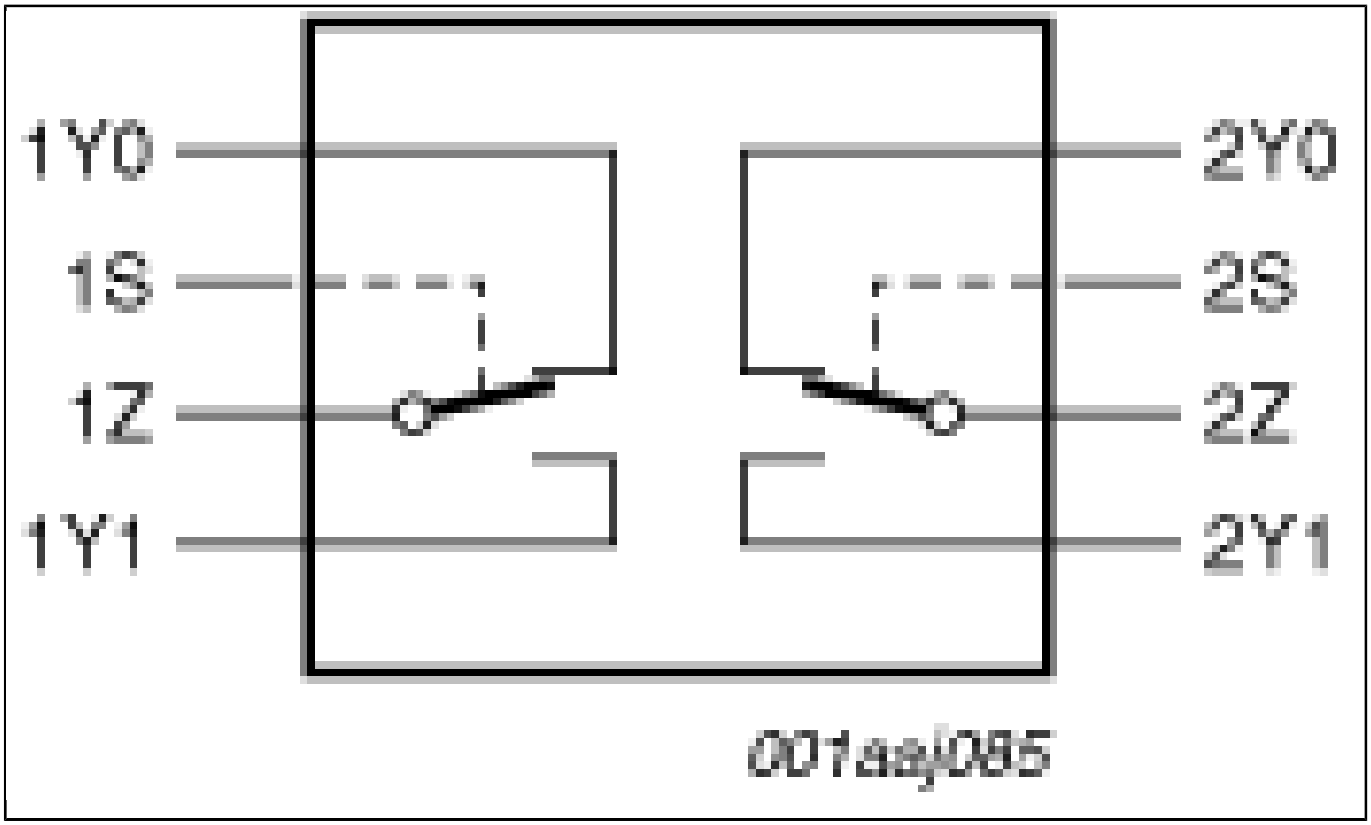
The NX3L4684 is a dual low-ohmic single-pole double-throw analog switch, suitable for use as an analog or digital multiplexer/demultiplexer. Each switch has a digital select input (nS), two independent inputs/outputs (nY0 and nY1) and a common input/output (nZ).

Schmitt trigger action at the digital inputs makes the circuit tolerant to slower input rise and fall times. Low threshold digital inputs allows this device to be driven by 1.8 V logic levels in 3.3 V applications without significant increase in supply current ICC. This makes it possible for the NX3L4684 to switch 4.3 V signals with a 1.8 V digital controller, eliminating the need for logic level translation. The NX3L4684 allows signals with amplitude up to VCC to be transmitted from nZ to nY0 or nY1; or from nY0 or nY1 to nZ. Its low ON resistance (0.3 Ω for Y0 port, 0.5 Ω for Y1 port) and flatness (0.1 Ω) ensures minimal attenuation and distortion of transmitted signals.

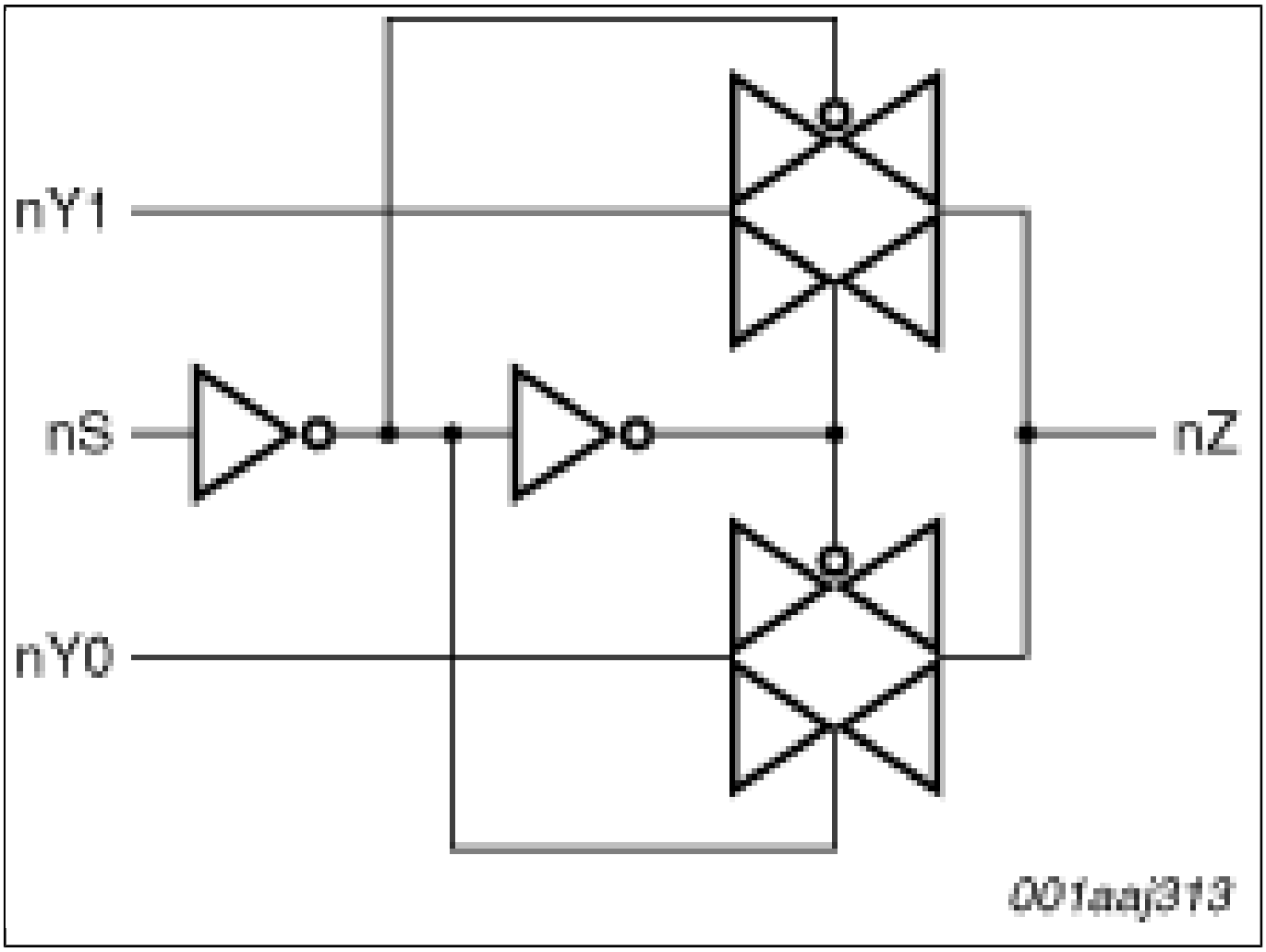
Block diagram: NX3L2G66GD, NX3L2G66GM, NX3L2G66GT, NX3L2T66GD, NX3L2T66GM, NX3L2T66GT, NX3L4684GM, NX3L4684TK Block Diagram



Block diagram: NX3L4684GM, NX3L4684TK Block Diagram



Block diagram: NX3L4684GM, NX3L4684TK Block Diagram



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