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Fast Facts



Product Group: Vishay Siliconix, ICs, Analog Switches / June 2025

Move to LE Series Analog Switches for Lower On-Resistance

Vishay's LE series analog switches offer a compelling upgrade path from traditional high voltage devices. By operating at lower supply voltages, these switches deliver significantly reduced on-resistance (R_{on}), resulting in lower power consumption, improved signal integrity, and better overall system efficiency. As shown in the table below, LE versions provide the same configurations and package options as their high voltage counterparts, but with R_{on} values that are often less than half. For designers looking to optimize performance in battery-powered or low voltage applications, switching to our LE series is a straightforward way to gain measurable benefits without changing board layouts.

Configuration	Package options	Part number	Single supply voltage (V)		Dual supply voltage (V)		$R_{(ON)}$ (Ω)	Part number	Single supply voltage (V)		Dual supply voltage (V)		$R_{(ON)}$ (Ω)
			Min	Max	Min	Max			Min	Max	Min	Max	
8:1 x 1	SO16	DG408	5	36	5	20	40	DG408LE	3	16	3	8	17
	TSSOP16	DG409						DG409LE					
4:1 x 2	SO16	DG411	5	44	5	22	25	DG411LE	3	16	3	8	16
	TSSOP16	DG412						DG412LE					
SPST x 4, NC	SO16	DG413	5	40	5	20	20	DG413LE	3	16	3	8	12
SPST x 4, NO	TSSOP16	DG417						DG417LE					
SPST x 4, Comp	SO16	DG418	5	36	5	22	45	DG418LE	3	16	3	8	16
SPST x 1, NC	TSSOP16	DG419						DG419LE					
SPST x 1, NO	SO8	DG441	5	36	5	22	45	DG441LE	3	16	3	8	16
SPDT x 1	MSOP8	DG442						DG442LE					
SPST x 4, NC	SO16	DG441	5	36	5	22	45	DG441LE	3	16	3	8	16
SPST x 4, NO	TSSOP16	DG442						DG442LE					

Contact Information

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