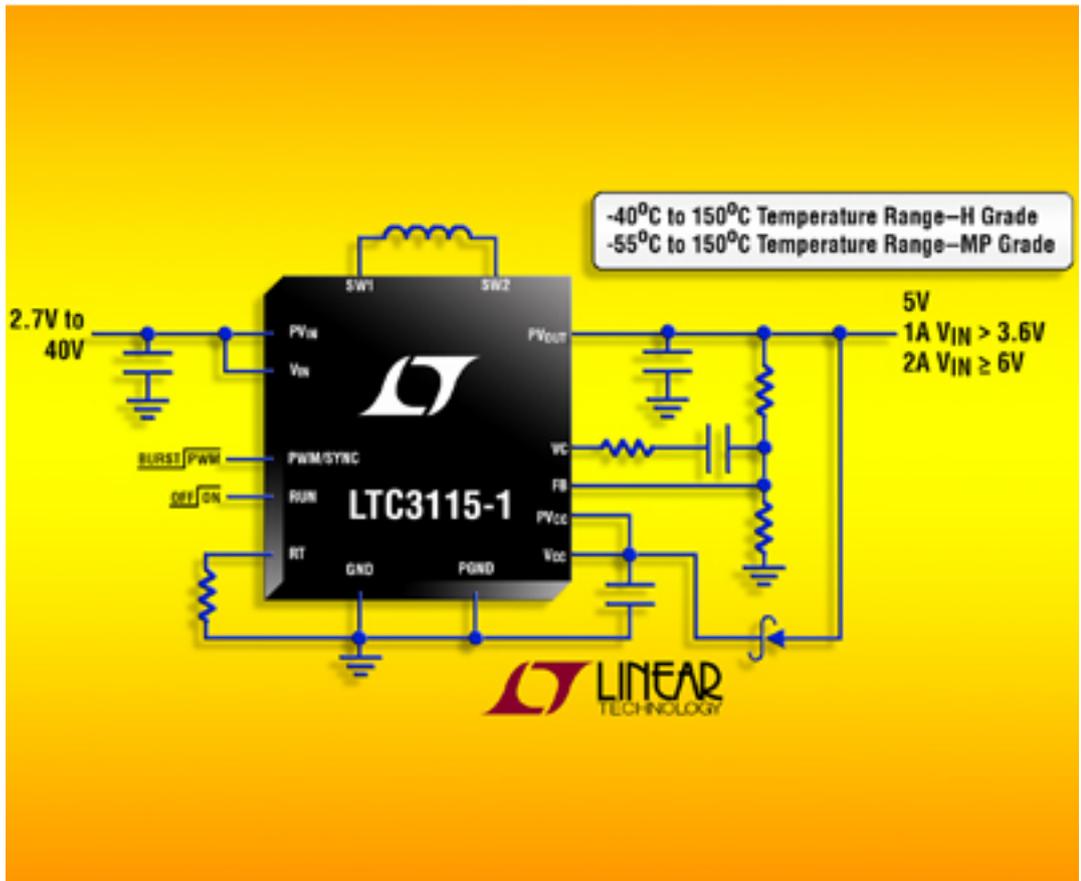


DC/DC converter offered in high temperature H-grade & high-reliability MP-grade



Linear

Technology announces the high temperature H-grade (-40°C to 150°C junction temperature) and high reliability MP-grade (-55°C to 150°C) version of the [LTC3115-1](#) [1] in a 20-lead thermally enhanced TSSOP package. The LTC3115-1 is a synchronous buck-boost converter that delivers up to 2A of continuous output current from a wide range of power sources from single-cell Li-Ion to 24V/28V industrial rails to 40V automotive inputs.

The LTC3115-1's 2.7V to 40V input and output range provides a regulated output with inputs above, below or equal to the regulated output. The low noise buck-boost topology incorporated in the LTC3115-1 provides a continuous, jitter-free transition between buck and boost modes, making it ideal for RF and other noise-sensitive applications that must maintain a low-noise constant output voltage with a variable input power source. Efficiency of up to 95% extends run time in battery powered systems. The LTC3115-1's switching frequency is user- programmable between 100kHz and 2MHz, and can be synchronized to an external clock. Proprietary buck-

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boost PWM circuitry ensures low noise and high efficiency while minimizing the size of external components. The combination of tiny externals and a TSSOP-20E package provide a compact solution footprint.

The H-grade version operates from -40°C to a maximum junction temperature of 150°C, guaranteed throughout this temperature range. Similarly, the MP grade version operates from -55°C to a maximum junction temperature of 150°C, and is guaranteed and tested throughout this temperature range. For both the H grade and the MP grade, the electrical specifications are identical to the industrial grades. They are ideal for automotive, industrial, and military applications, which are subject to extreme ambient temperatures.

Both the LTC3115HFE-1 and the LTC3115MPFE-1 are available in a 20-lead thermally enhanced TSSOP package. Pricing starts at \$6.36 and \$16.48 each, respectively, for 1,000-piece quantities, and both are available from stock. For more information, visit www.linear.com/product/LTC3115-1 [1].

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<http://www.ecnmag.com/product-releases/2013/06/dc/dc-converter-offered-high-temperature-h-grade-high-reliability-mp-grade>

Links:

[1] http://r20.rs6.net/tn.jsp?e=0013A43WzmyirralhZdN5KFN32kK925uIIR3f87KuUiCf gUatfRcDMst77BTu3_2I8nCgt83EZF0fyFSHBY9kly_Pd1hG2eF9oN5WCDRI73GLGUmTbvJDn_ISuN_Vp1jXi9RdtyadttiLU=