

## New 200-V N-Channel MOSFETs for Power over Ethernet Applications Give Extra Voltage Headroom



San Jose, California, June 1, 2016, Analog Power today released two new 200-Volt MOSFETs designed for Power over Ethernet Powered Device (PoE PD) power supplies and other telecom power applications. The products are built using a new generation design and wafer fabrication process that produce very competitive performance figures, yet use high volume standard manufacturing steps, giving both excellent performance and competitive prices.

The 118-milliohm AMR402N and 158 milliohm AMR404N are designed to give extra headroom over 150-V rated MOSFETs with minimal  $R_{DS(on)}$  penalty. Built on Analog Power’s new high Figure of Merit mid-voltage process, the devices exhibit good performance even when compared with 150-V MOSFETs. The extra headroom of 200-V VDS ratings allows a simpler clamp circuit and or a higher maximum duty cycle in a DC DC converter.

“The AMR402N and AMR404N are two new members of our PoE solutions family and add to our existing products for PoE and DC DC conversion for 48V to 80V input.” said Howard Chen, Analog Power’s head of marketing, “Analog Power’s philosophy is to provide complete sets of MOSFETs for applications. Analog Power is one of the few companies to have a range of -200-V rated P channel MOSFETs, and these new 200V devices fulfill our commitment to providing a complete set of parts for an application by having the option of 200-V ratings for both the PWM MOSFET and the active clamp. Analog Power also has a devices optimized for synchronous rectification, and power routing.”

Part	$V_{DS}$ Max V	$V_{GS}$ Max V	$R_{DS(on)}$ m Ohm @		$I_D$ Max A	$Q_G$ C	$P_D$ W	Package
			10V	$V_{GS} =$ 6V				
AMR402N	200	20	118	148	5.4	18	5	SOIC-8PP
AMR404N	200	20	158	195	4.6	13	5	SOIC-8PP



Samples and production quantities of the AMR402N and AMR404N are available now, with lead times of 12 weeks for large orders. For more information see [www.analogpowerinc.com](http://www.analogpowerinc.com)

Founded in 2002 in San Jose, CA, USA, Analog Power is a leading manufacturer of Power MOSFETs. It produces not only a complete line of N- and P-channel MOSFETs from 20V to 800V, but also application specific MOSFETs that facilitate smaller and higher performance end products. Using tier-1 wafer foundries and assembly and test outsourcing, Analog Power provides tier-1 quality and reliability levels, yet remains dynamic and customer-driven.

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