



**Ferrite Power Inductor**  
3mm – 12mm Sq.



**Metal Alloy Power Inductor**  
3mm – 12mm Sq.



**Chip Type Metal Alloy Power Inductor**  
0603 – 1210 Size



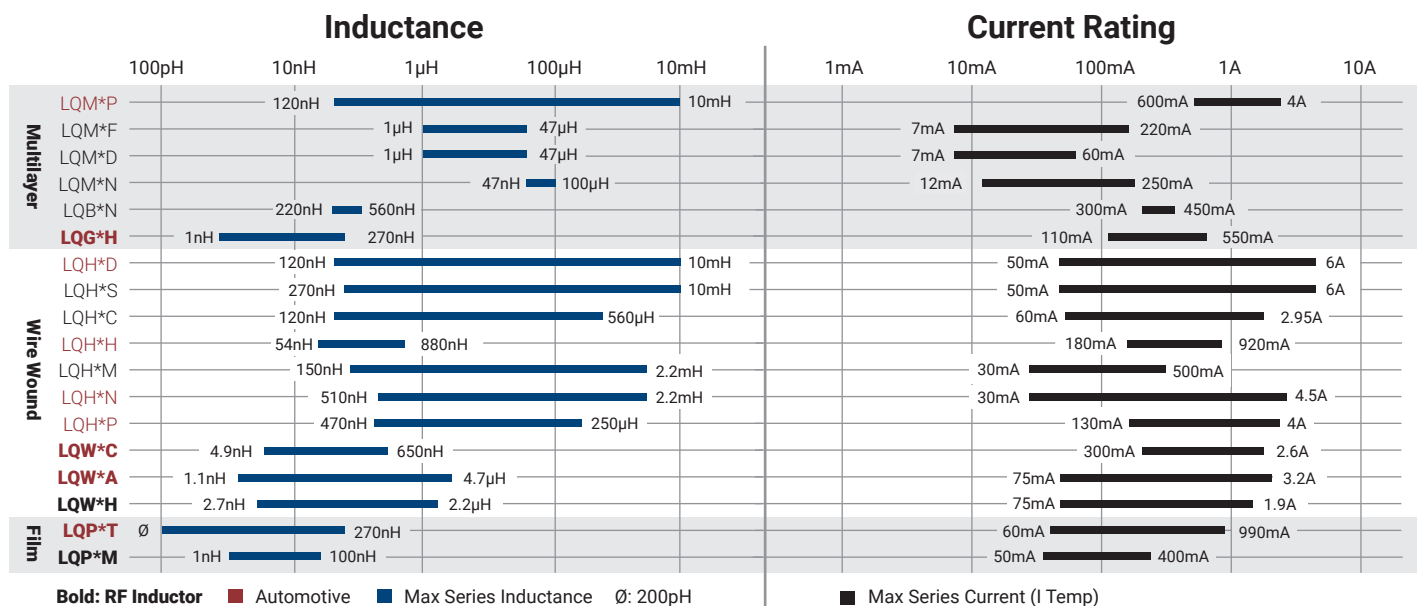
**Wire Wound Inductor**  
03015 – 2525 Size



**Multilayer Inductor**  
0402 – 1210 Size



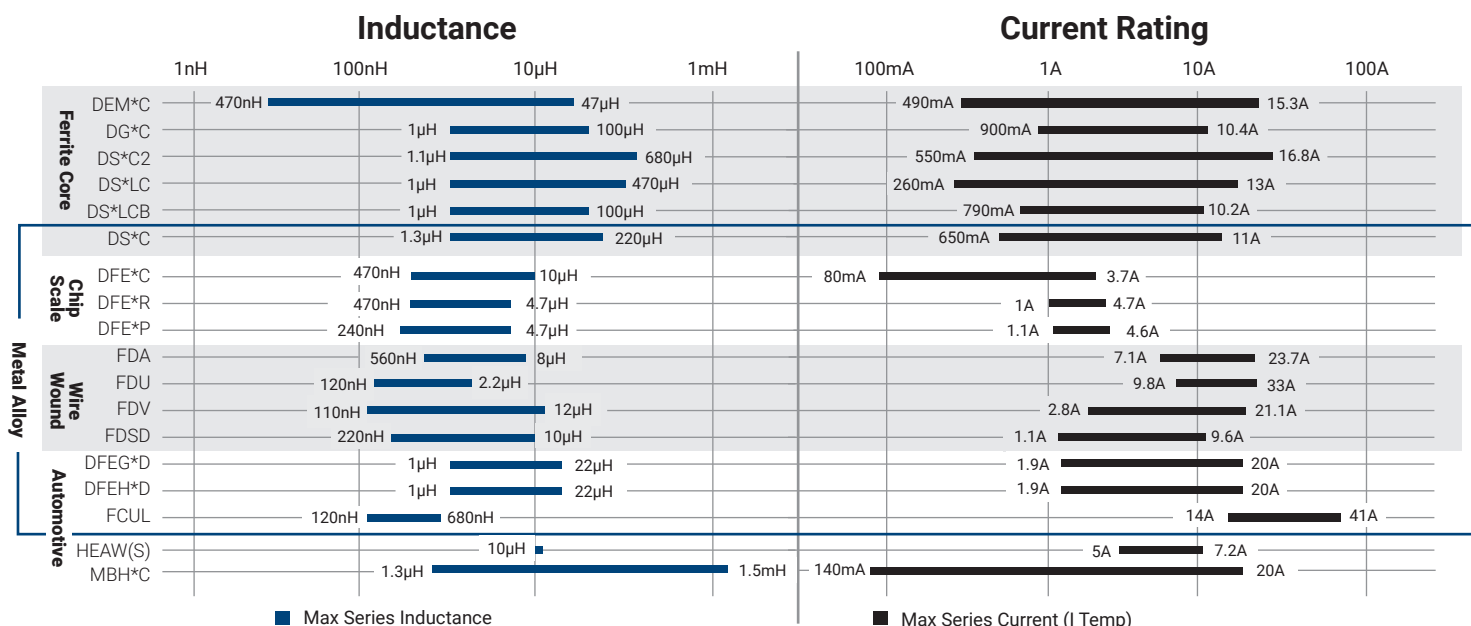
**Film Type Inductor**  
01005 – 0603 Size



**Wire Wound** RF inductors in the LQW Series features high Q values giving them excellent attenuation characteristics inside the pass band of the filters. This coupled with the low Rdc gives them great response for many applications. LQW/H Series are coated with ferrite resin to improve the strength of the product and provide magnetic shielding. The merits of using a wire wound product are demonstrated when used in large current areas and high-inductance areas. LQW/H Series are excellent choices for power and RF applications.

**Multilayer** While the Q factor is lower than that of the wire wound structure, the multilayer structure of LQG Series provides good overall balance between the L value tolerance, rated current, size, price, and other characteristics, enabling use on a wide range of RF applications. LQM Series – multilayer power inductor consists of a sintered alternately layered ceramic material and coil conductor. Compared with the wire wound structure, small sizes/low profiles are possible. The required inductance of the multilayer inductor for power inductors tends to be decreasing, and cases where the multilayer inductor can be applied are expected to increase further.

**Film Inductors** in the LQP Series have a different set of features for RF applications. The LQP Series can have smaller sizes, high Q characteristics, narrow inductance step and tight tolerances.



**Ferrite Core** power inductors provide a low-profile, magnetically shielded solution ideal for a variety of DC-DC converter applications. If your design doesn't require soft saturation and low flux leakage, ferrite is a very good solution. In fact, ferrite core inductors can be a more cost effective solution.

**Metal Alloy** technology offers the benefit of softer saturation current allowing for more consistent inductance through the rated current and rated temperature ranges. Additional benefit comes from the closed casing construction which eliminates the air gap, reducing magnetic flux leakage and audible noise at high frequencies. This innovation in inductor technology has allowed for smaller case sizes and higher currents. Metal alloy core inductors offer many advantages over ferrite core inductors.

**Automotive** Murata/TOKO takes these same innovations and brings added reliability with automotive grade inductors. These inductors are used in many automotive applications and come with AEC-Q200 compliance to verify the added reliability.