

Is thermal performance critical to your latest design? DARFON introduces a new shielded power inductor series that delivers superior performance in a smaller footprint.

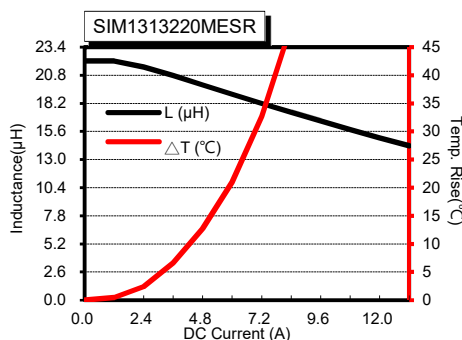
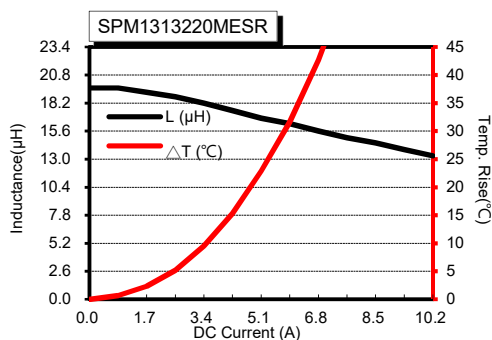
Our new SIM1313 series uses optimal powder mixing technology to reduce heat generation.

● Product Specifications

Darfon P/N	Nominal Inductance [μ H]	Inductance Tolerance [%]	DC Resistance Rdc [m Ω]		Heat Rating Current Idc [A]		Saturation Current Isat [A]		Marking
			Typ.	Max.	Typ.	Max.	Typ.	Max.	
SIM1313220MESR	22.0	$\pm 20\%$	29.0	34.0	7.7	7.2	11.0	9.5	i 220
SIM1313330MESR	33.0	$\pm 20\%$	43.0	51.0	6.5	6.0	9.0	7.5	i 330
SIM1313470MESR	47.0	$\pm 20\%$	60.0	70.0	5.3	4.8	7.8	6.5	i 470
SIM1313101MESR	100.0	$\pm 20\%$	130.0	155.0	3.7	3.5	5.3	4.5	i 101

● Comparison of electrical characteristics: Ordinary type v.s. Low temperature type (taking 22uH as an example)

Product Type	Darfon P/N	Nominal Inductance [μ H]	Inductance Tolerance [%]	DC Resistance Rdc [m Ω]		Heat Rating Current Idc [A]	Saturation Current Isat [A]	Marking
				Typ.	Max.	Max.	Max.	
General	SPM1313220MESR	22.0	$\pm 20\%$	34.0	39.5	5.0	7.5	DN220
Low temperature	SIM1313220MESR	22.0	$\pm 20\%$	29.0	34.0	7.7	11.0	i 220



● Customer application testing: 30W Automotive eadights

Traditional Nickel Zinc Inductor



General type Molding Inductor



Low temperature type Molding Inductor



Contact us, if you need further information about this.