

DMP22222A Series



1. Features of DMP22222A Series :

- Alloy powder based Inductor with lower core loss compare to PFC222222D Series.
- No thermal aging concerns.
- Inductance Range: 260.0 uH to 4500.0 uH, custom values are welcomed.
- High current output chokes, up to 7.1 Amp with approx. 50% roll off.
- Designed and developed for energy storage and filtering applications.
- Foot Print: 21.5 x 22.0mm max., 22.0mm max. Height.
- Surge Voltage: 400VDC.
- Operating Temperature Range: -55°C to + 150°C.
- RoHs & HF compliant.
- MTBF = 2,083,333,333 hours, FIT = 0.48 (per billions hour) per Telcordia SR-332.



2. Electrical Characteristics of DMP22222A Series:

ITG Part Number	OCL ¹ (uH) ± 20%	DCR @25°C (mΩ) Max.	Isat1 ² (A) @25°C	L@Isat1 ² (uH) Min.	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
DMP222222A-261MHF	260.0	61.2	2.9	185.4	4.3	159.0	7.1	110.1	6.5
DMP222222A-351MHF	350.0	140.0	2.5	249.8	3.7	214.2	6.1	148.3	4.5
DMP222222A-561MHF	560.0	207.0	2.0	397.6	2.9	340.9	4.9	236.0	3.7
DMP222222A-821MHF	820.0	288.0	1.6	579.5	2.4	497.0	4.0	344.1	3.1
DMP222222A-102MHF	1000.0	384.0	1.4	715.5	2.2	613.5	3.6	424.8	2.7
DMP222222A-122MHF	1200.0	427.0	1.3	851.5	2.0	730.2	3.3	505.6	2.6
DMP222222A-152MHF	1500.0	558.0	1.2	1061.8	1.8	910.5	3.0	630.4	2.2
DMP222222A-222MHF	2200.0	701.0	1.0	1551.9	1.4	1330.8	2.4	921.4	2.0
DMP222222A-282MHF	2800.0	960.0	0.8	1980.4	1.3	1698.1	2.2	1175.8	1.7
DMP222222A-452MHF	4500.0	1548.0	0.7	3182.9	1.0	2729.3	1.7	1889.8	1.3

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 100KHz, 0.25V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL ;(Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL ;(Ta=25°C).
3. Irms: DC current for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 150°C under worst case operating conditions as verified in the end application.

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3. Mechanical Dimension of DMP222222A Series (Unit: mm):

ITG Part Number	A	B	C	D	E1	E2	E3	E4	F	G	H	J	Fig.
	Max.	Max.	Max.	±0.50	±0.50	±0.50	±0.50	±0.40	Typ.	Typ.	Typ.	Typ.	
DMP222222A-261MHF	21.50	22.00	22.00	3.50	7.50	14.00	17.00	16.20	3.80	0.20	4.80	0.80	1
DMP222222A-351MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	3
DMP222222A-561MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	2
DMP222222A-821MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	2
DMP222222A-102MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	3
DMP222222A-122MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	3
DMP222222A-152MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	3
DMP222222A-222MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	2
DMP222222A-282MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	2
DMP222222A-452MHF	21.50	22.00	22.00	3.50	17.00	16.20	17.00	16.20	1.27	/	/	/	3

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.0: September 12, 2024

*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

3. Mechanical Dimension of DMP22222A Series (Unit: mm):

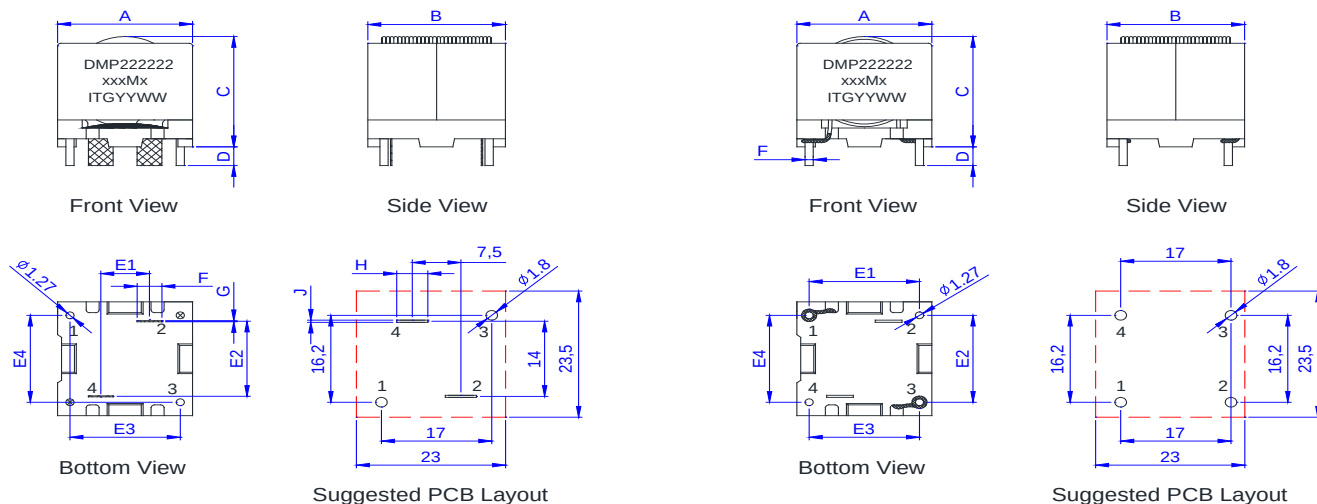


Fig.1

Fig.2

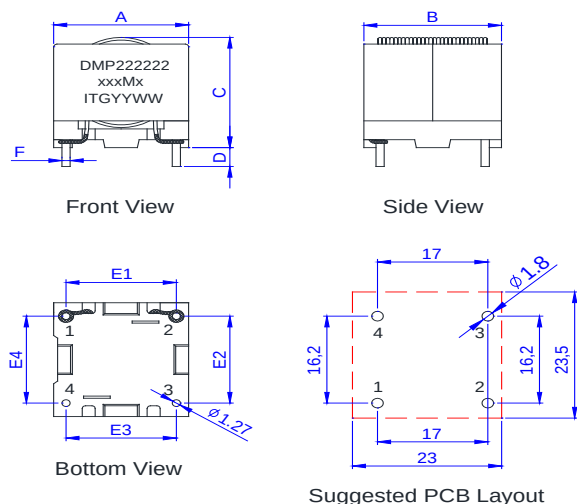


Fig.3

Note:

Fig.1: PIN1 & PIN3 provided for mounting stability only.

Fig.2: PIN2 & PIN4 provided for mounting stability only.

Fig.3: PIN3 & PIN4 provided for mounting stability only.

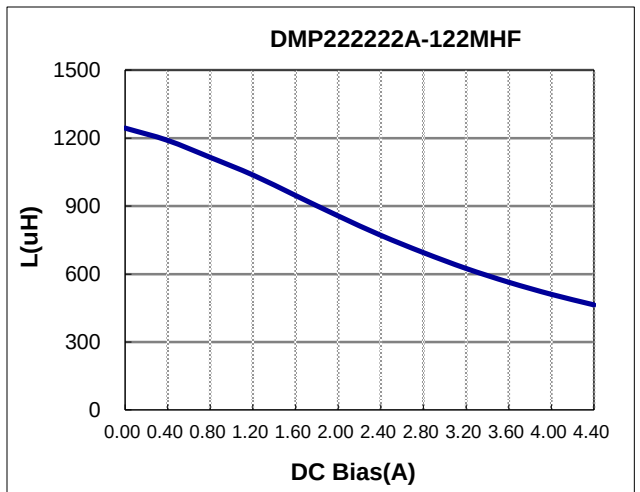
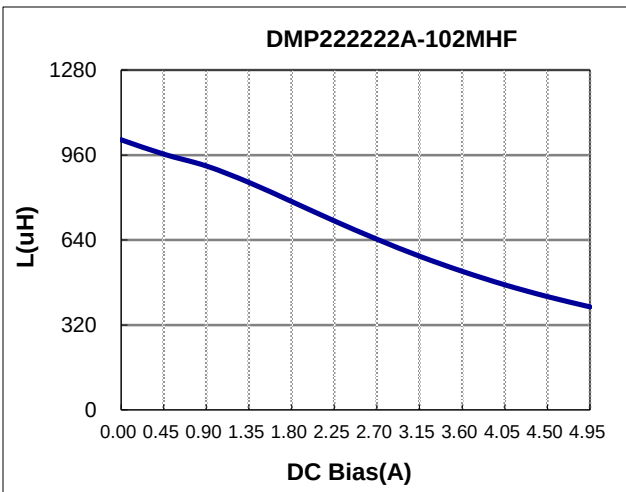
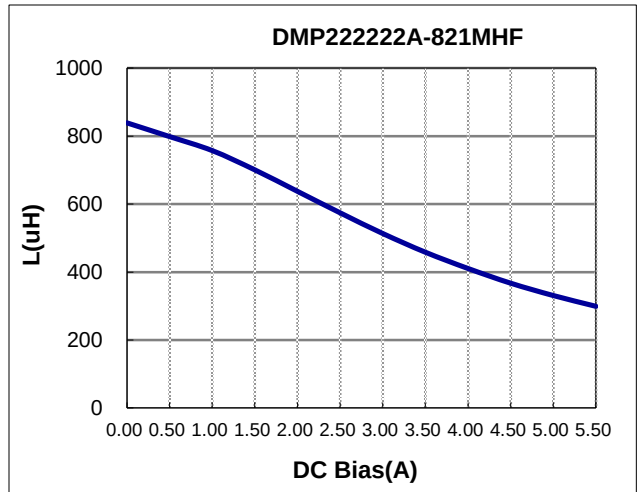
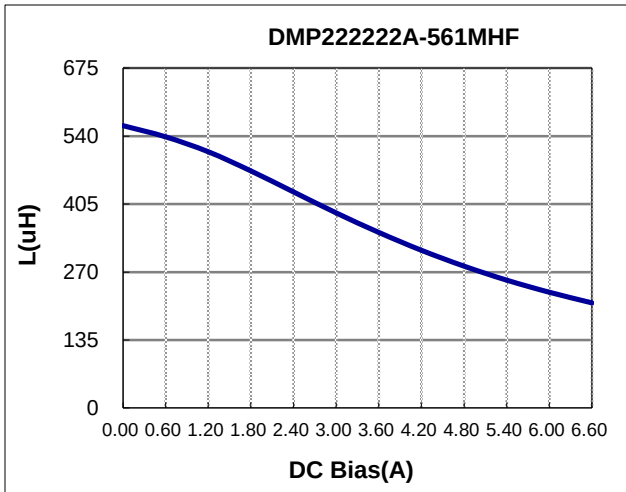
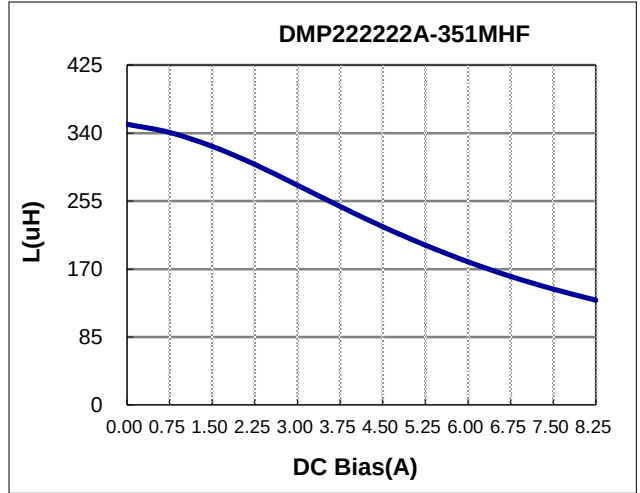
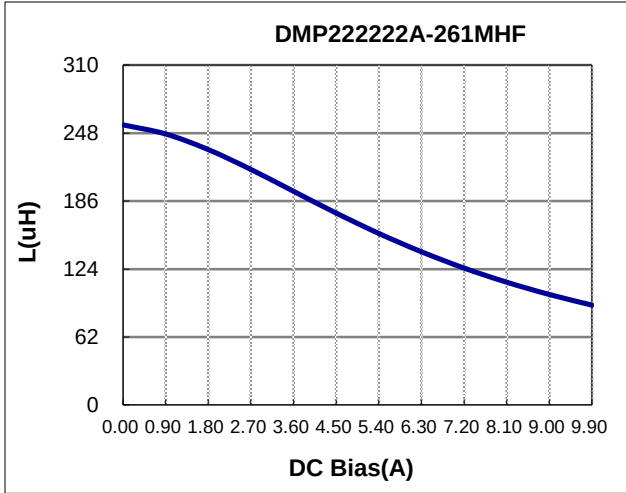
Part Marking:

DMP22222: Series Name.

xxxMx: xxx is inductance value in uH(R: decimal point),
M is tolerance, x is special code.

ITGYYWW: ITG is Company Name and YYWW is Date Code.

4. Inductance vs. Current Characteristics of DMP222222A Series :



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