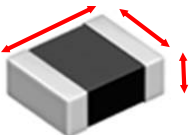
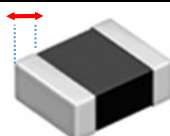


				
Manufacturer Part Number		Coilmaster Part Number	MURATA Part Number	Coiltronic-EATON Part Number
Inductance	0.22 μ H	ML252010QP-R22M-LF	NA	NA
	0.33 μ H	ML252010QP-R33M-LF	NA	MPI2510V1-R33-R
	0.47 μ H	ML252010QP-R47M-LF	1269AS-H-R47M	MPI2510V1-R47-R
	0.68 μ H	ML252010QP-R68M-LF	NA	MPI2510V1-R68-R
	1.0 μ H	ML252010QP-1R0M-LF	1269AS-H-1R0M	MPI2510V1-1R0-R
	1.50 μ H	ML252010QP-1R5M-LF	1269AS-H-1R5M	MPI2510V1-1R5-R
	2.20 μ H	ML252010QP-2R2M-LF	1269AS-H-2R2M	MPI2510V1-2R2-R
	4.70 μ H	ML252010QP-4R7M-LF	1269AS-H-4R7M	MPI2510V1-4R7-R
Operating Temp range °C		-40 ~ 125	-40 ~ 85	-40 ~ 125
Dimensions (mm)		Length = 2.5 ± 0.2 Width = 2.0 ± 0.2 Thickness = 0.9 ± 0.1	Length = 2.5 ± 0.2 Width = 2.0 ± 0.2 Thickness = 1.0 max	Length = 2.5 ± 0.2 Width = 2.0 ± 0.2 Thickness = 1.0 max
E (mm)		0.6 $\pm$ 0.3	0.6 $\pm$ 0.3	0.6 $\pm$ 0.3

Applications

- Handheld/mobile devices
- Smart phones
- Tablets/e-readers
- Media players
- GPS
- MP3 Players
- Wearable electronics
- Digital cameras

FEATURES (Coilmaster)

1. Magnetic shielding allows high-density mounting
2. Ultra-small shielded power inductor – only 1 mm high, 2.5× 2 mm footprint
3. Handles current up to 7.2 Amps
4. Excellent mounting strength by SMD chip making
5. Isat means that DC current will cause a 30% inductance reduction from initial value .
6. Irms means that DC current will cause coil temperature rising to 40°C whichever is smaller.
7. RoHS-compliant. 260°C compatible.
8. Operating Temperature Range : -40°C to +125°C

ML252010QP SERIES – High Current Power Inductors

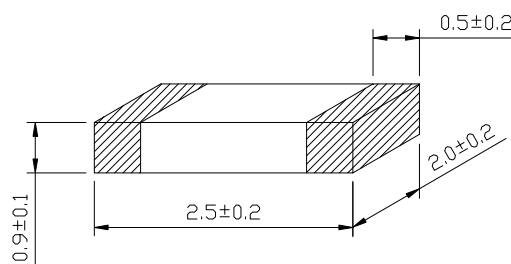


PART NUMBERING SYSTEM

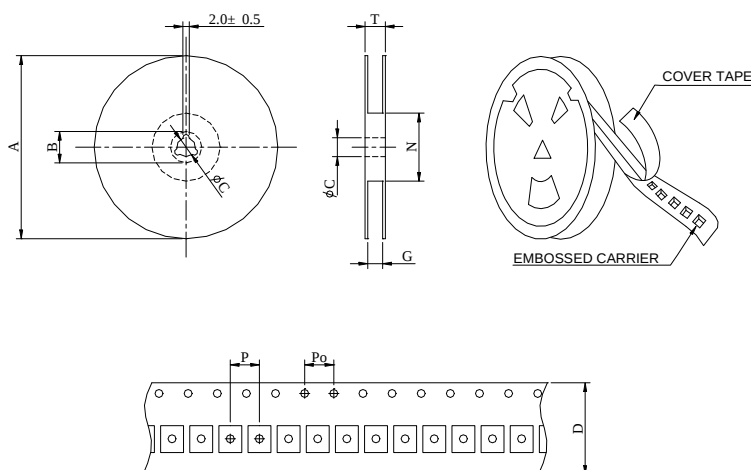
ML	252010QP	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁰	P	Po	T
ML252010QP	178	3,000	178	21	13	8	18	50	4	4	22.4

ML252010QP SERIES – High Current Power Inductors



SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) Max. (Typ.)	Isat(A) Max. (Typ.)	Irms(A) Max. (Typ.)	TEST FREQ. (MHz)
ML252010QP-R22M-LF	0.22 $\pm$ 20%	12.5 (9.0)	7.20 (7.9)	5.90 (5.6)	1MHz/1V
ML252010QP-R33M-LF	0.33 $\pm$ 20%	26.0 (21)	6.00 (6.6)	4.40 (5.6)	1MHz/1V
ML252010QP-R47M-LF	0.47 $\pm$ 20%	32.0 (27)	4.50 (5.0)	3.90 (5.2)	1MHz/1V
ML252010QP-R68M-LF	0.68 $\pm$ 20%	44.0 (37)	3.87 (4.3)	3.40 (5.6)	1MHz/1V
ML252010QP-1R0M-LF	1.00 $\pm$ 20%	54.0 (45)	3.15 (3.5)	3.00 (3.4)	1MHz/1V
ML252010QP-1R5M-LF	1.50 $\pm$ 20%	91.0 (76)	2.34 (2.6)	2.50 (2.6)	1MHz/1V
ML252010QP-2R2M-LF	2.20 $\pm$ 20%	119.0 (99)	2.16 (2.4)	2.30 (2.4)	1MHz/1V
ML252010QP-4R7M-LF	4.70 $\pm$ 20%	262.0 (220)	1.62 (1.8)	1.36 (5.6)	1MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only **1 mm** high, **2.5× 2 mm** footprint
3. Handles **current up to 7.2 Amps**
4. Excellent mounting strength by SMD chip making
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