

ML201610QP-A SERIES - High Current Power Inductors



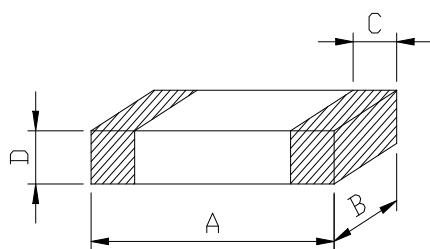
PART NUMBERING SYSTEM

(AEC-Q200)

ML	201610QP	—	2R2M	—	LF	—	A
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE		Automotive

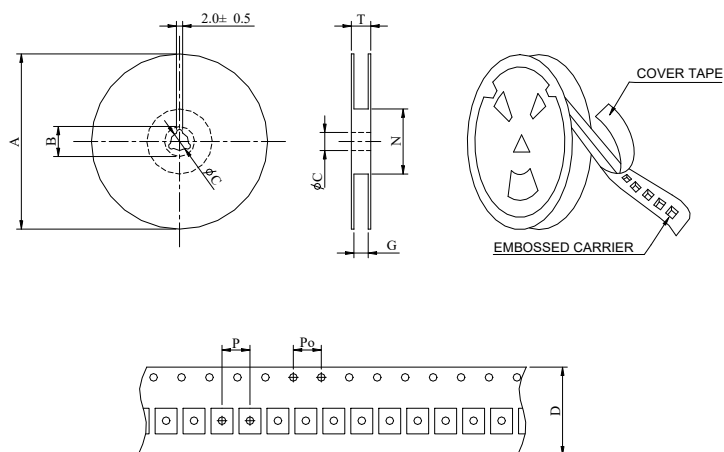
SHAPES AND DIMENSIONS

UNIT : mm



A= 2.0±0.3 B=1.6±0.3 C=0.6±0.3 D=1.0 Max.

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
ML201610QP-A	178	3,000	178	21	13	8	18	50	4	4	22.4



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SPECIFICATION TABLE

(AEC-Q200)

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) Max. (Typ.)	Isat(A) Max. (Typ.)	Irms(A) Max. (Typ.)	TEST FREQ. (MHz)
ML201610QP-R24M-LF-A	0.24 \pm 20%	21 (17)	5.05 (5.6)	4.50 (5.0)	1MHz/1V
ML201610QP-R33M-LF-A	0.33 \pm 20%	29 (24)	4.50 (5.0)	3.69 (4.1)	1MHz/1V
ML201610QP-R47M-LF-A	0.47 \pm 20%	40 (33)	4.00 (4.4)	3.15 (3.5)	1MHz/1V
ML201610QP-R68M-LF-A	0.68 \pm 20%	49 (41)	3.33 (3.7)	3.06 (3.4)	1MHz/1V
ML201610QP-1R0M-LF-A	1.0 \pm 20%	69 (60)	2.61 (2.9)	2.26 (2.6)	1MHz/1V
ML201610QP-1R5M-LF-A	1.5 \pm 20%	129 (114)	2.25 (2.5)	1.81 (2.0)	1MHz/1V
ML201610QP-2R2M-LF-A	2.2 \pm 20%	150 (135)	1.71 (1.9)	1.50 (1.7)	1MHz/1V

FEATURES

1. **Magnetic shielding** allows high-density mounting
2. **Ultra-small shielded power inductor** – only 1 mm high, 2.0× 1.6 mm footprint
3. Handles **current up to 5.6 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