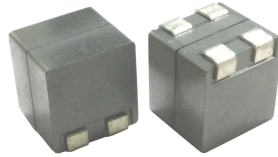


Power Inductor AMDU Series

Automotive
AEC-Q200

RoHS Compliant
Halogen Free
REACH Compliant



Power
Circuit

Shield

Wire
Wound

Metal

Ultra
High
Current

Part Numbering

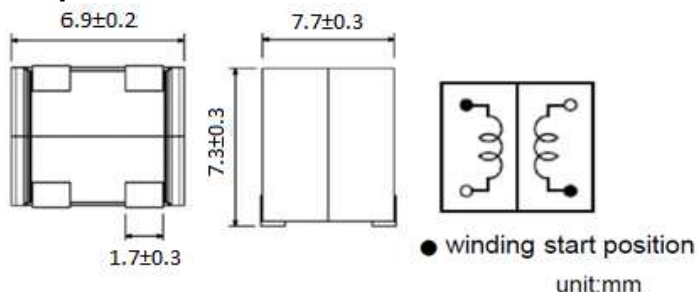
A	MDU	00	060677	100	M	A1
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			060677 6.9x7.7x7.3	100 10	M ±20%	
			101010 10.2x9.5x10.85	220 22.0		

Power Inductor AMDU Series

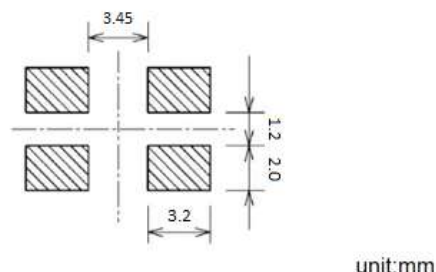
Automotive
AEC-Q200

AMDU00060677 Type

Shapes and Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Inductance (μ H)	Test Freq.	RDC(m Ω) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance ($\pm$ %)	Marking
AMDU00060677100MA1	10	100kHz/0.5V	49	6.8	3.5	20	100
AMDU00060677220MA1	22	100kHz/0.5V	134	4.3	2.2	20	220

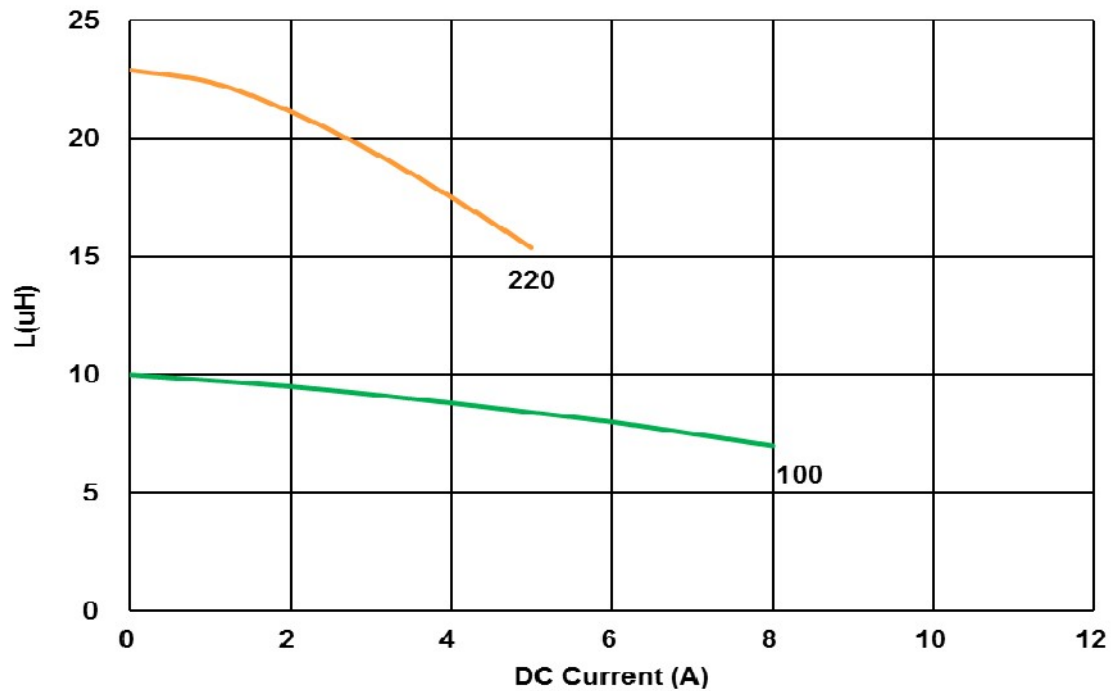
Note: When ordering, please specify tolerance code. Tolerance: M= $\pm$ 20%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC

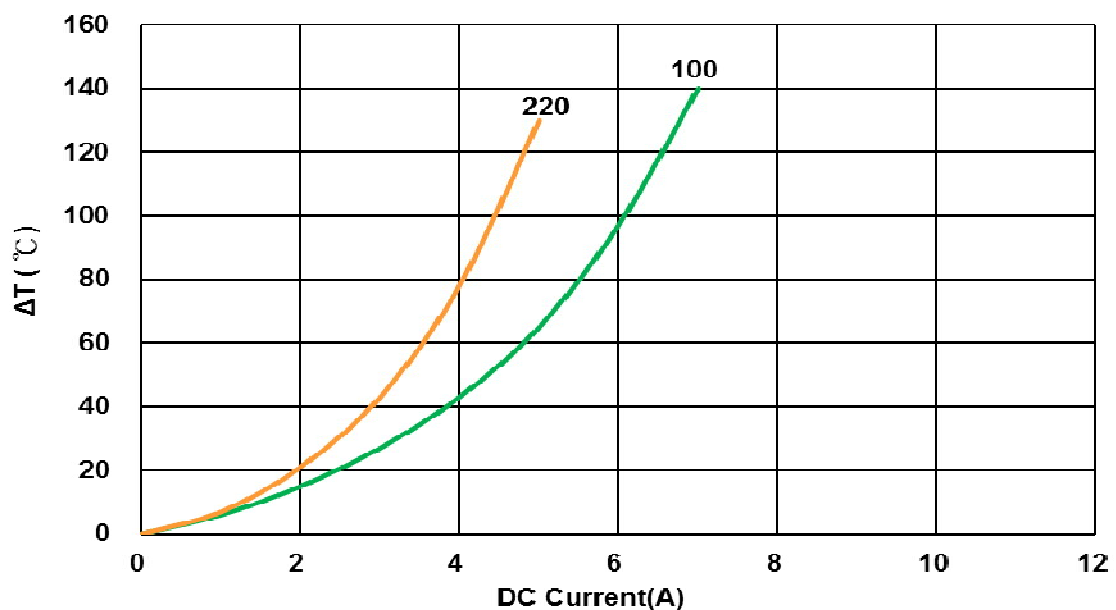
AMDU00060677 Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

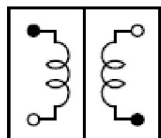
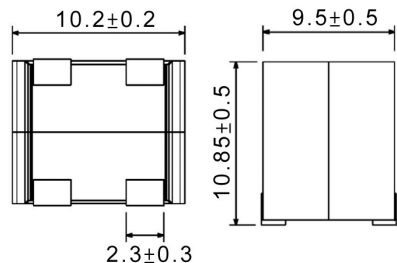


Power Inductor AMDU Series

Automotive
AEC-Q200

AMDU00101010 Type

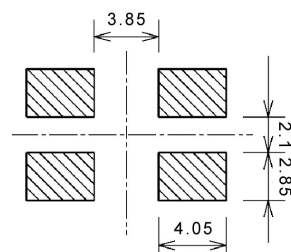
Shapes and Dimensions



● winding start position

unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

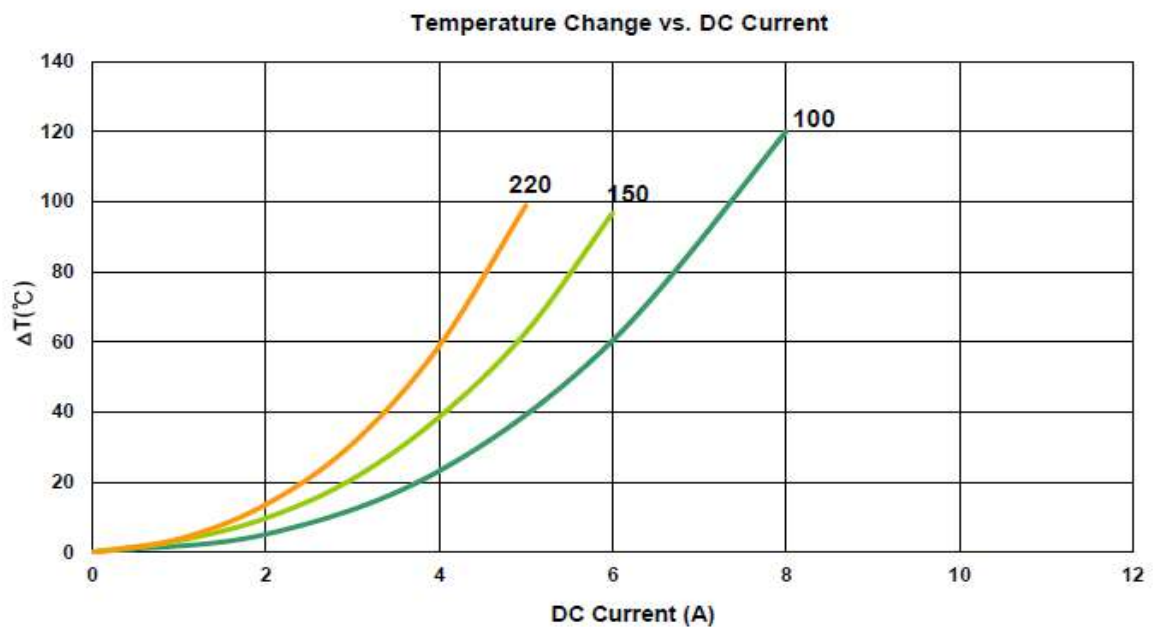
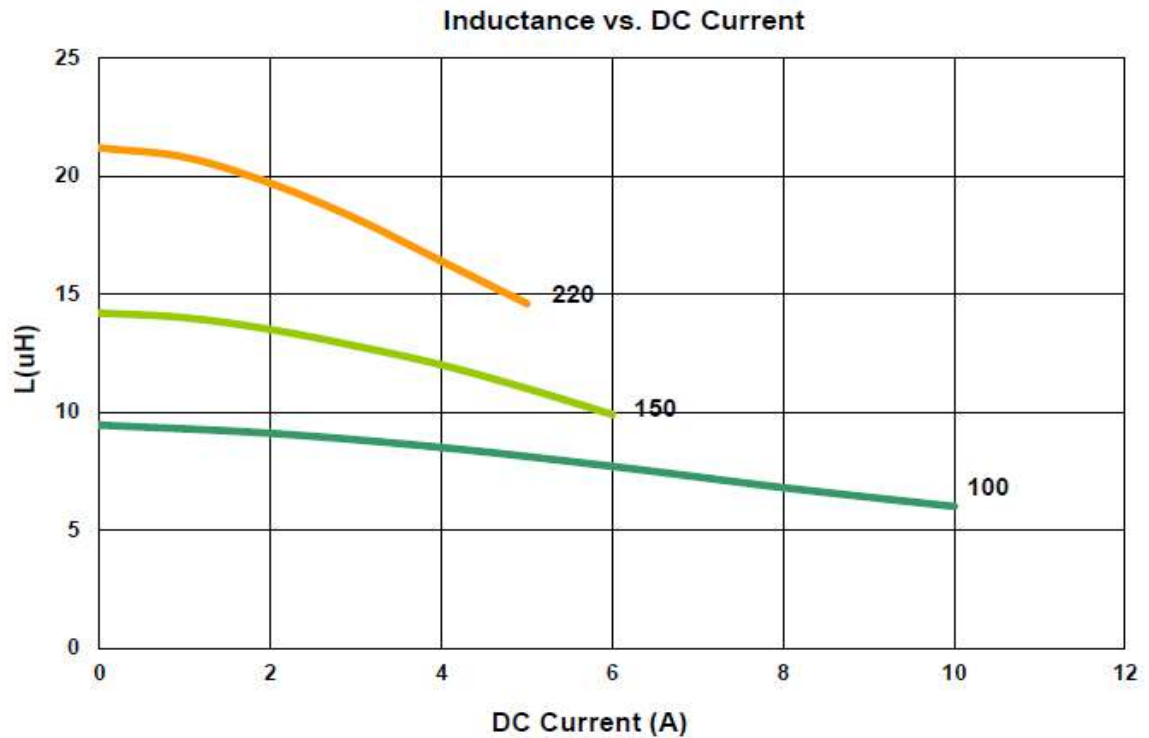
Part No.	Inductance (uH)	Test Freq.	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Tolerance (±%)	Marking
AMDU00101010100MA1	10	100kHz/0.5V	24	7.5	4.8	20	100
AMDU00101010150MA1	15	100kHz/0.5V	35	5.5	3.8	20	150
AMDU00101010220MA1	22	100kHz/0.5V	53	4.5	3.0	20	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value with current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC

AMDU00101010 Type

■ Characteristics Graph

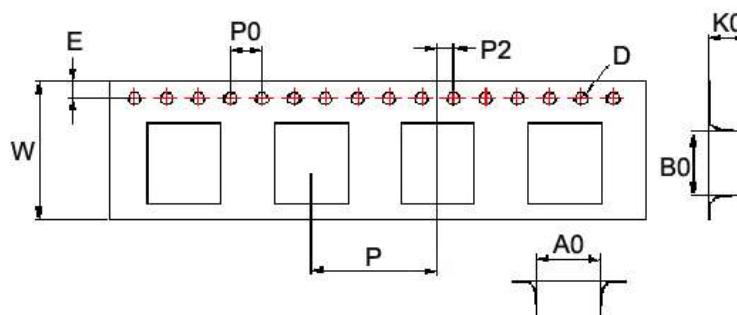


Power Inductor AMDU Series

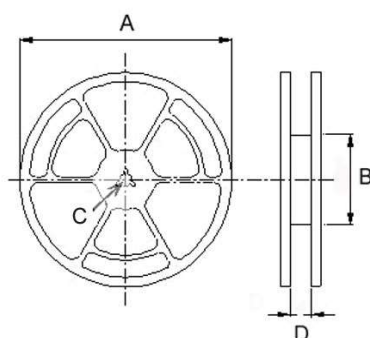
Automotive
AEC-Q200

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
AMDU00060677	7.3	8.2	7.8	1.55	1.75	16	12	4	2	330	100	13	17.4	500
AMDU00101010	10.2	10.7	11.5	1.55	1.75	24	16	4	2	330	100	13	24.4	200

Mouser Electronics

Authorized Distributor

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Pulse:

[AMDU00101010100MA1](#) [AMDU00101010150MA1](#) [AMDU00101010220MA1](#)