

**Power Inductor APAS Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



Power  
Circuit

Shield

Wire  
Wound

Ferrite

**Part Numbering**

A	PAS	00	080845	1R0	M	Y0
Grade	Series Name	Control Code	Dimensions Code (mm)	Inductance (uH)	Tolerance	Internal Code
			080845 7.5x7.5x4.5	1R0 1	M ±20%	Y0
				100 10	T ±30%	Z0
				101 100		

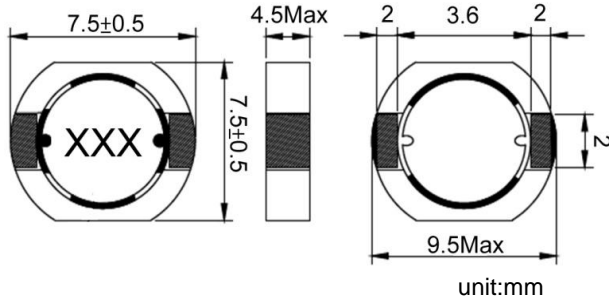
This specification applies to Power Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

**Power Inductor APAS Series**

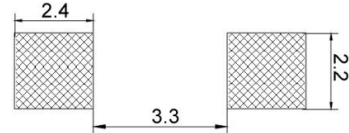
**Automotive  
AEC-Q200**

**APAS00080845 - Y0 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

Part No.	Inductance (uH )	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAS000808451R0□Y0	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAS000808451R5□Y0	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAS000808452R2□Y0	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAS000808453R3□Y0	3.3	100kHz,0.1V	16±30%	4.7	6.0	30	3R3
APAS000808454R7□Y0	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAS000808456R8□Y0	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAS00080845100□Y0	10	100kHz,0.1V	33±20%	3.0	3.4	20,30	100
APAS00080845150□Y0	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAS00080845220□Y0	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAS00080845270□Y0	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAS00080845330□Y0	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAS00080845470□Y0	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAS00080845680□Y0	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAS00080845101□Y0	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

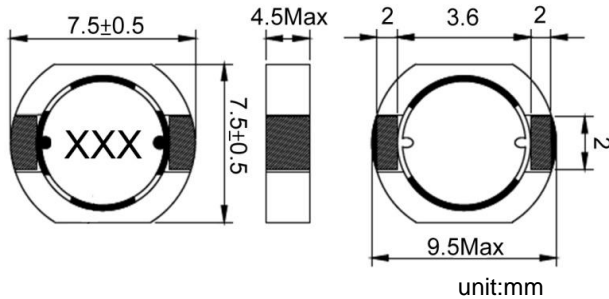
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:  
 L: HP4284A PRECISION LCR METER (or equivalent)  
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)  
 Isat:WK3255BQ+ WK3265B (or equivalent)  
 Irms: WK3255BQ+ WK3265B (or equivalent)

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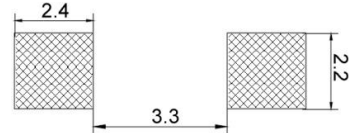
**Automotive  
AEC-Q200**

**APAS00080845 - Z0 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

Part No.	Inductance (uH )	Test Freq.	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
APAS000808451R0□Z0	1.0	100kHz,0.1V	9±30%	8.5	11	30	1R0
APAS000808451R5□Z0	1.5	100kHz,0.1V	10±30%	6.3	8.6	30	1R5
APAS000808452R2□Z0	2.2	100kHz,0.1V	13±30%	6.2	6.3	30	2R2
APAS000808453R3□Z0	3.3	100kHz,0.1V	16±30%	4.7	6	30	3R3
APAS000808454R7□Z0	4.7	100kHz,0.1V	18±30%	4.1	4.8	30	4R7
APAS000808456R8□Z0	6.8	100kHz,0.1V	22±30%	3.1	4.1	30	6R8
APAS00080845100□Z0	10	100kHz,0.1V	33±20%	3	3.4	20,30	100
APAS00080845150□Z0	15	100kHz,0.1V	55±20%	2.3	2.8	20,30	150
APAS00080845220□Z0	22	100kHz,0.1V	69±20%	1.7	2.4	20,30	220
APAS00080845270□Z0	27	100kHz,0.1V	83±20%	1.65	2.1	20,30	270
APAS00080845330□Z0	33	100kHz,0.1V	97±20%	1.6	1.9	20,30	330
APAS00080845470□Z0	47	100kHz,0.1V	130±20%	1.26	1.6	20,30	470
APAS00080845680□Z0	68	100kHz,0.1V	170±20%	1.08	1.3	20,30	680
APAS00080845101□Z0	100	100kHz,0.1V	260±20%	0.81	1.1	20,30	101

**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

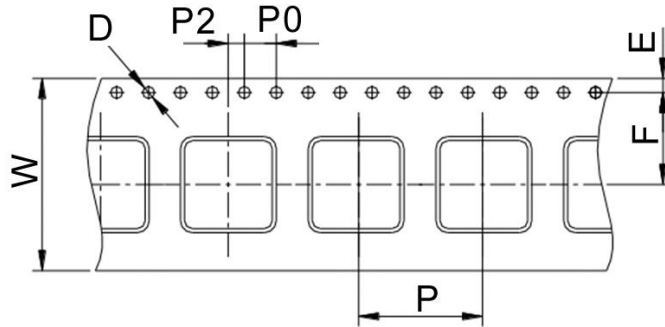
- Operating temperature range - 50°C ~ 150°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient with current
- Rated DC Current: The less value which is Isat or Irms
- Measure Equipment:  
 L: HP4284A PRECISION LCR METER (or equivalent)  
 RDC: CHROMA MODEL 16502 MILLIOHMETER (or equivalent)  
 Isat:WK3255BQ+ WK3265B (or equivalent)  
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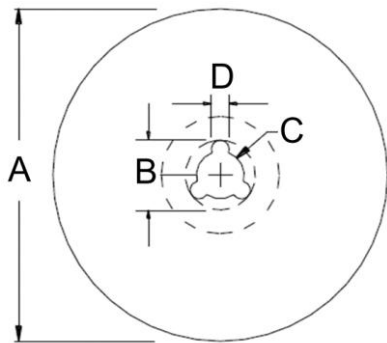
**Automotive  
AEC-Q200**

**■ Packaging**

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	W	D	E	F	P	P0	P2	A	B	C	D	
APAS00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000