

Automotive Signal Common Mode Chokes



ACMS-Q3225C

Request Samples



Check Inventory



3.2 x 2.5 x 2.35 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- AEC-Q200 compliant, Grade 1
- PPAP ready and supported
- Manufactured in TS/IATF 16949 production lines
- Excellent impedance characteristics

Applications

- Differential signal line common mode noise suppression.
- Multimedia devices
- Automotive applications such as ADAS, Infotainment, Sensing, TCU
- Automotive CAN bus

Electrical Specifications

Part Number	Inductance (μ H) (+50%/-30%)	Impedance (Ω) @10MHz		DCR (m Ω)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance (M Ω)
		Min	Typ.	Max	Max	Max	Min
ACMS-Q3225C-110	11	400	550	300	0.4	80	10
ACMS-Q3225C-220	22	600	1100	500	0.3	80	10
ACMS-Q3225C-510	51	1500	2500	1500	0.2	80	10
ACMS-Q3225C-101	100	2200	4000	2200	0.15	80	10

Rated Current is based on an Irms temperature rise of 20°C

Inductance Test Conditions: 100KHz/0.1V

ACMS-Q3225C is AEC-Q200 Automotive certified

ACMS-Q3225C Series is RoHS Compliant and Pb free

Operating Temperature: -40°C to +150°C (Including self-heating)

Storage Temperature (on PCB): -40°C to +150°C

Storage (in original packaging): <40°C, <70% RH



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REVISION Initial Release
3/31/2022

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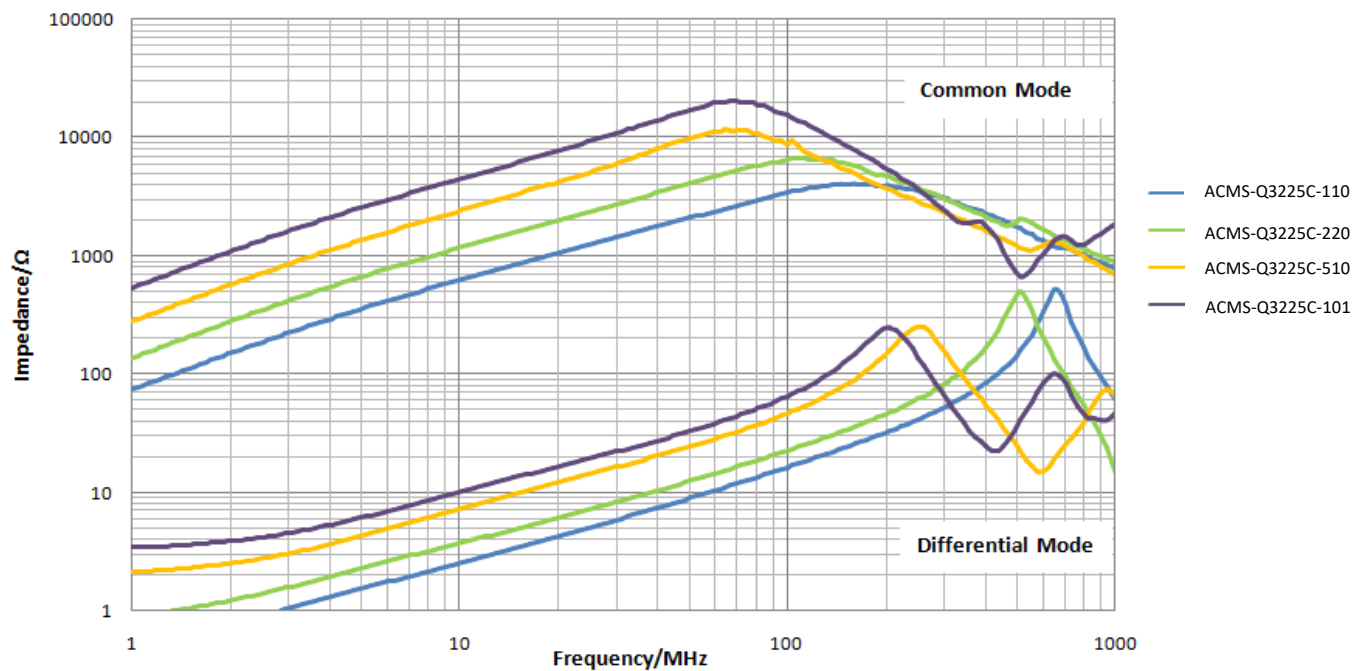


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Electrical Specifications



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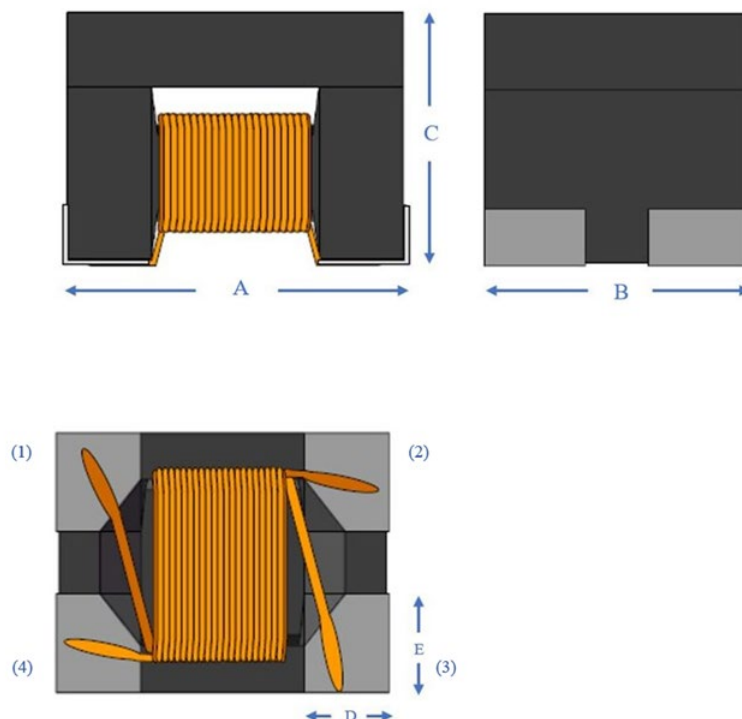


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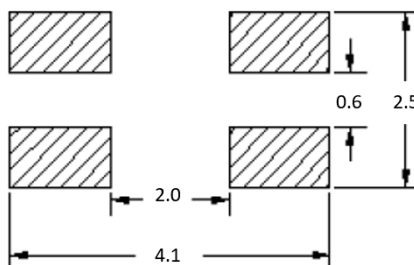


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Mechanical Specifications



A	B	C	D	E
3.2 ±0.2	2.5 ±0.2	2.35 ±0.2	0.80 Max	0.95



Recommended Layout

Dimensions: mm



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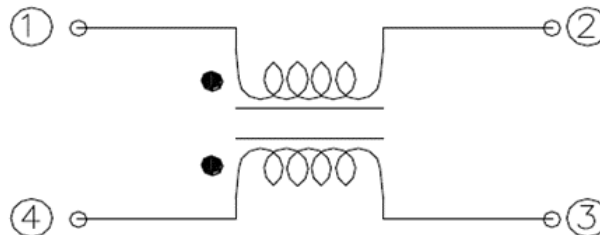


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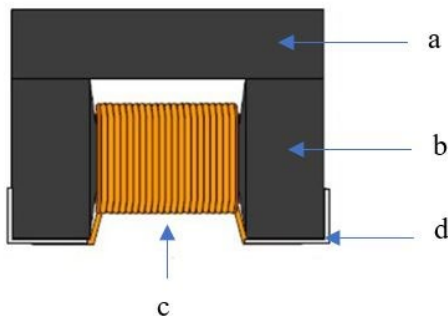


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Schematic

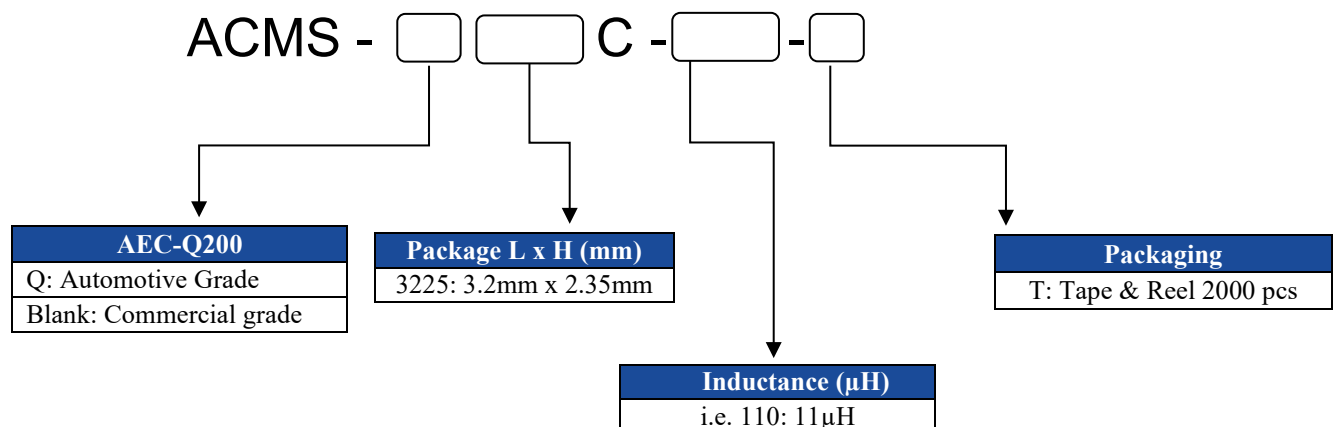


Materials Specifications



No.	Description	Material
a	Upper Plate	Ni-Zn Ferrite
b	Core	Ni-Zn Ferrite
c	Wire	Enameled copper wire
d	Electrode	Ag/Ni/Sn plating

Part Identification



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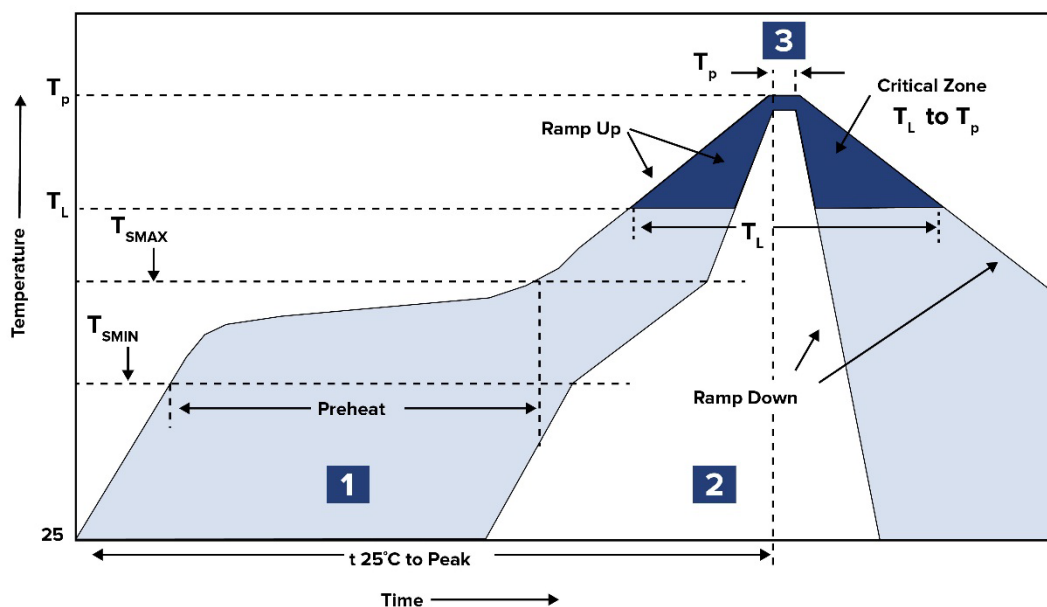


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 220°C	60 ~ 90 sec.
3	Peak heat	T_p 260°C MAX	10 sec. MAX

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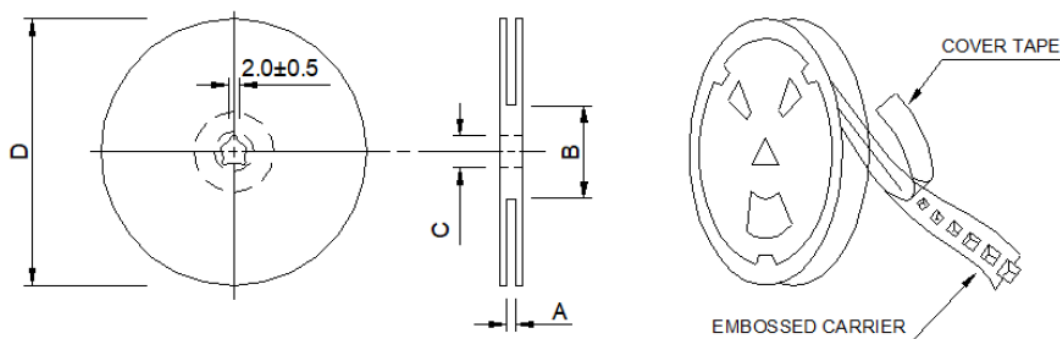
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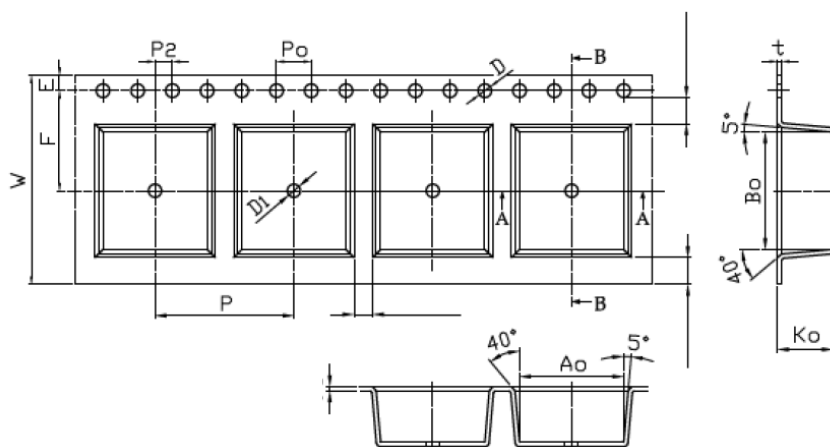
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Packaging

Tape & Reel: 800pcs/reel



Series	A	B	C	D
ACMS-Q3225C	13.0 ±0.5	100.0 ±2.0	13.0 ±0.5	330



W	P	E	F	P0	P2	B0	A0	K0	D	t
12.0 ±0.10	8.0 ±0.10	1.75 ±0.10	5.5 ±0.10	4.0 ±0.10	2.0 ±0.10	3.6 ±0.10	2.9 ±0.10	2.6 ±0.10	1.55 +0.5/-0	0.3 ±0.05

Dimensions: mm

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