

Automotive signal Common Mode Chokes



ACMS-Q3225

Request Samples



Check Inventory



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

Features

- AEC-Q200 compliant
- PPAP ready and supported
- Manufactured in TS/IATF 16949 production lines
- Excellent impedance characteristics
- Inductance values from 11 μ H to 100 μ H

Applications

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

Electrical Specifications

Part Number	Impedance (Ω) @10MHz		Inductance (μ H) (+50/-30%)	DCR (m Ω) Max	Rated Current (A) Max	Rated Voltage (Vdc) Max	Insulation Resistance (M Ω) Min
	Min	Typ.					
ACMS-Q3225-110	300	550	11	400	0.3	80	10
ACMS-Q3225-220	500	1100	22	500	0.25	80	10
ACMS-Q3225-510	1000	2600	51	700	0.2	80	10
ACMS-Q3225-101	2200	5100	100	1500	0.15	80	10

Rated Current is based on an Irms temperature rise of 40°C

Inductance Test Conditions: 0.1V/100KHz

ACMS-Q3225 is AEC-Q200 Automotive certified

ACMS-Q3225 Series is RoHS Compliant and Pb free

Operating Temperature: -55°C to +150°C (Including self-heating)

Storage Temperature (on PCB): -55°C to +150°C

Storage (in original packaging): <40°C, <60% RH

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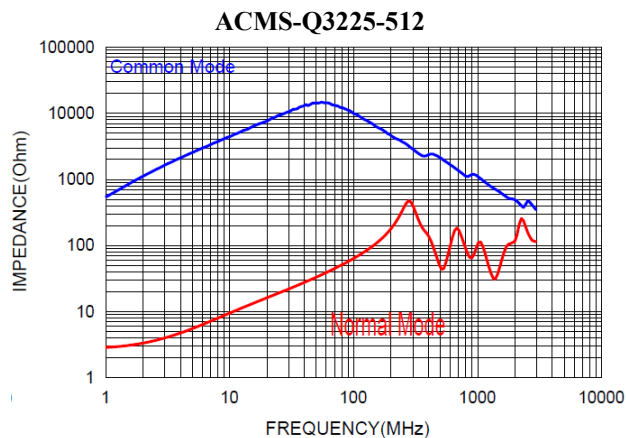
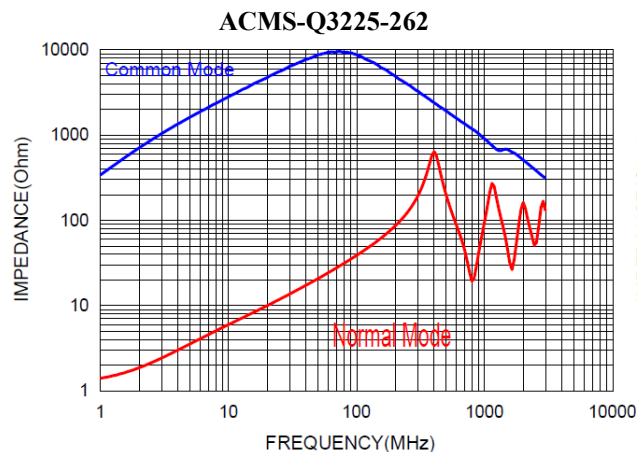
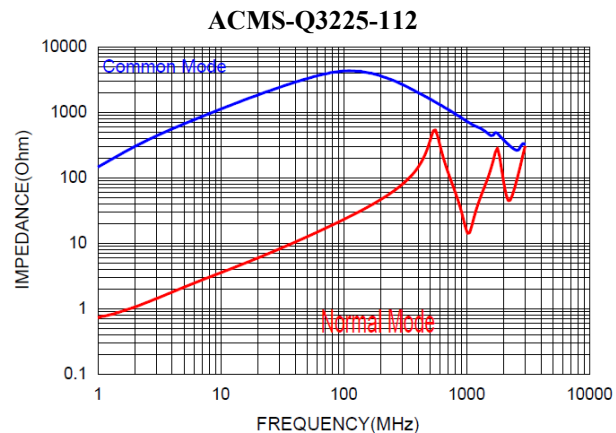
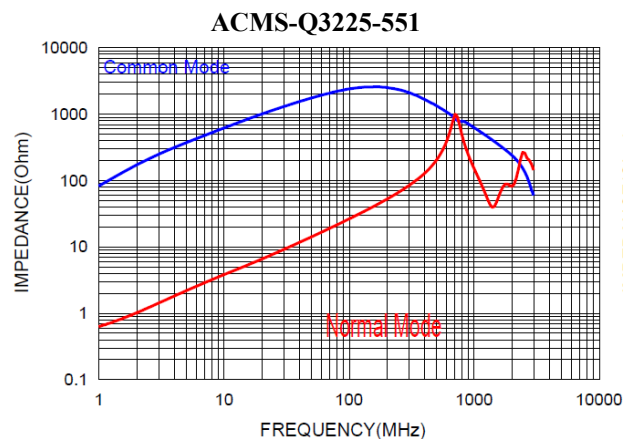


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Electrical Specifications



5101 Hidden Creek Ln, Spicewood TX 78669
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3/31/2022

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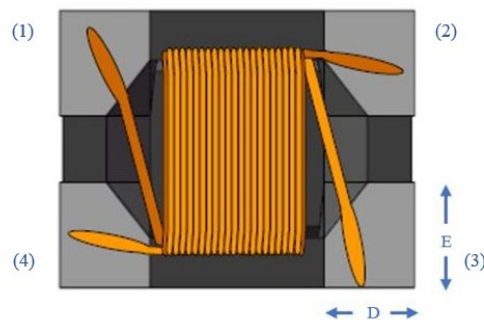
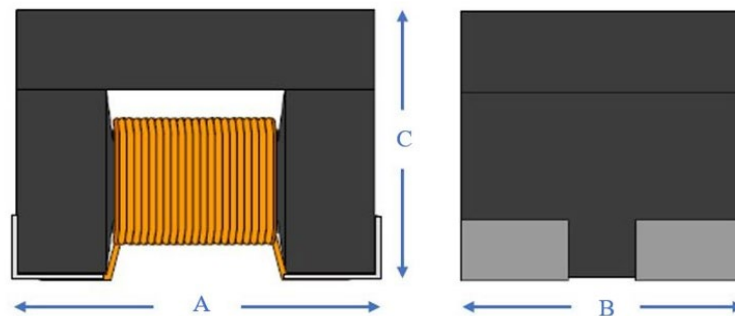


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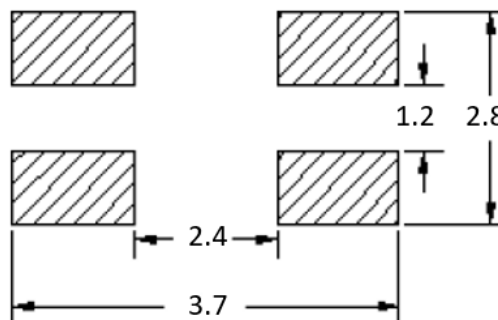


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Mechanical Specifications



A	B	C	D	E
3.20 ±0.3	2.5 ±0.2	2.5 Max	0.55 ±0.15	0.75 ±0.2



Recommended Layout

Dimensions: mm



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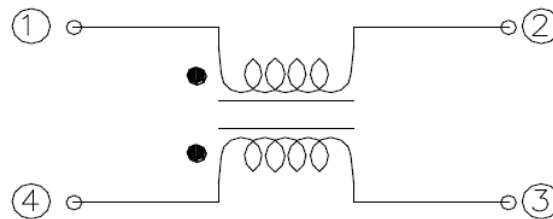


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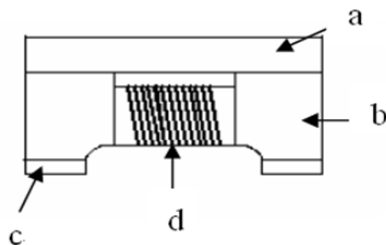


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Schematic

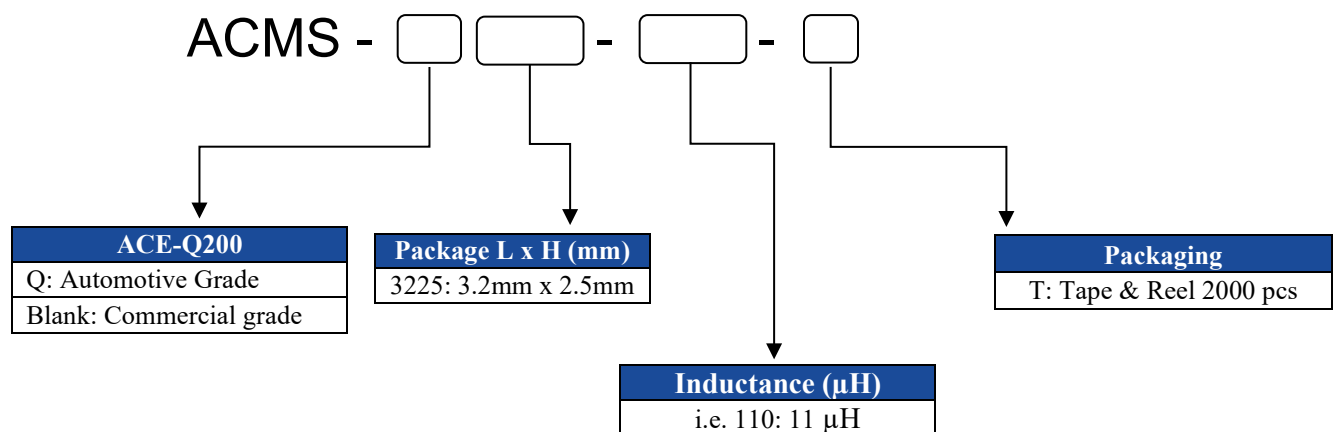


Materials



	Description	Specification
a	Upper Plate	Ferrite
b	Core	Ferrite Core
c	Electrode	Ag/Ni/Sn
d	Wire	Enameled Copper Wire

Part Identification



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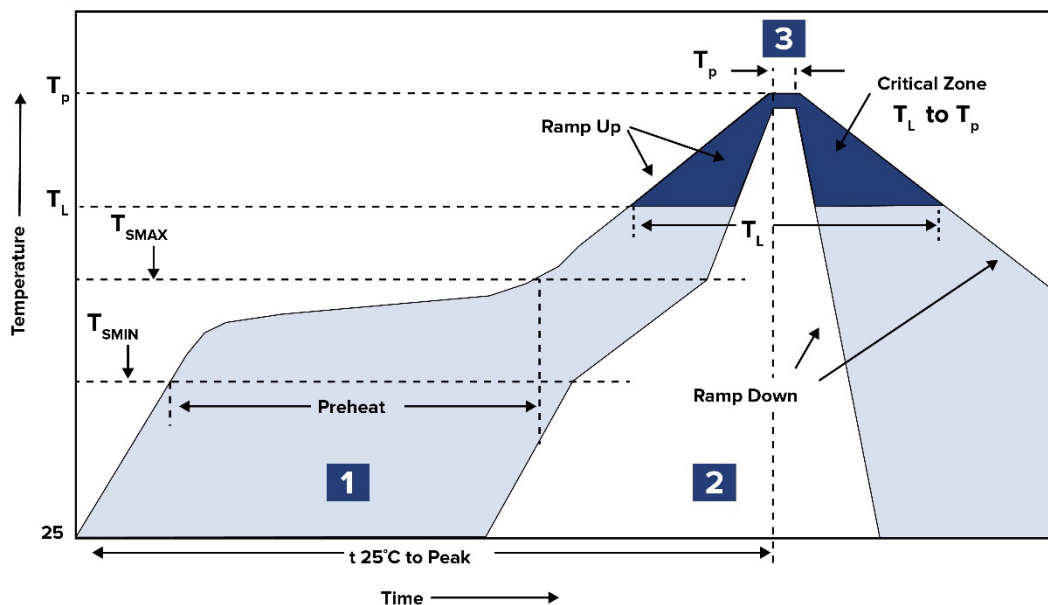


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p 250°C ± 5°C	30 sec. MAX

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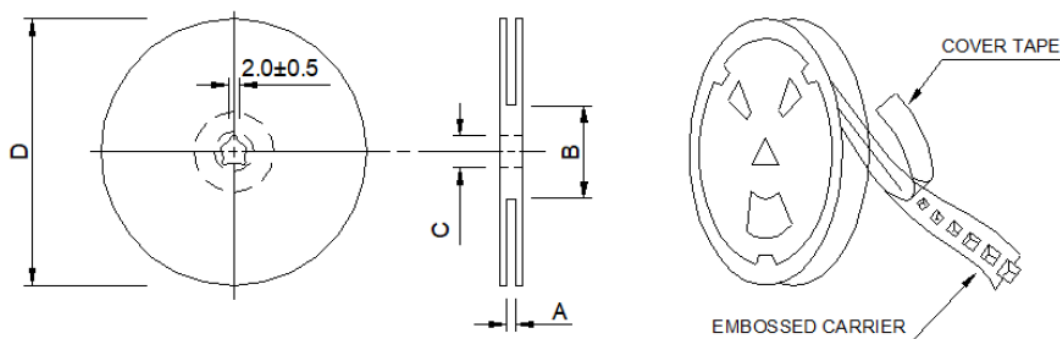
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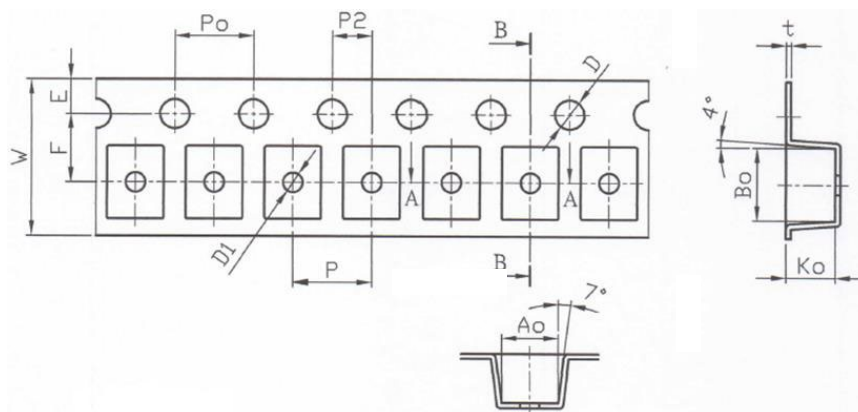
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Packaging

Tape & Reel: 2000pcs/reel



Series	A	B	C	D
ACMS-Q3225	9.0 ±0.5	60.0 ±2.0	13.5 ±0.5	178 ±2.0



W	P	E	F	P0	P2	B0	A0	K0	D	D1	t
8.0 ±0.10	4.0 ±0.10	1.75 ±0.10	3.5 ±0.10	4.0 ±0.10	2.0 ±0.10	3.72 ±0.10	2.88 ±0.10	2.5 ±0.10	1.5 +0.10/-0	1.00 ±0.10	0.26 ±0.05

Dimensions: mm

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