

ACMS-Q3225

Request Samples



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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 μH to 100 μH

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 (µH)	DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance $(M\Omega)$	
	Min	Typ.	(+50/-30%)	Max	Max	Max	Min	
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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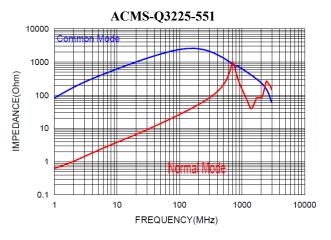


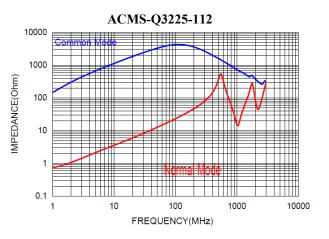
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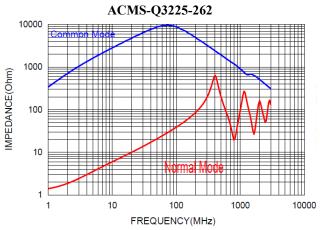


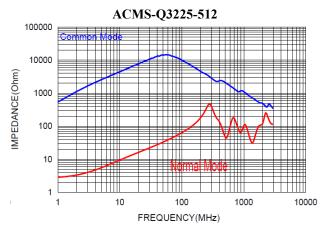
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Electrical Specifications













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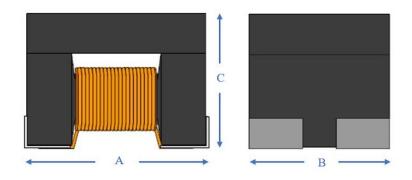


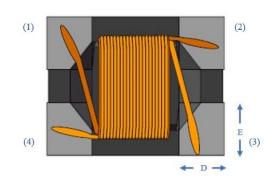
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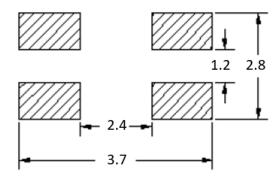
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Mechanical Specifications





A	В	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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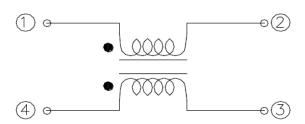


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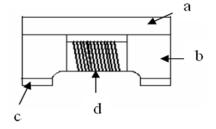


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Schematic

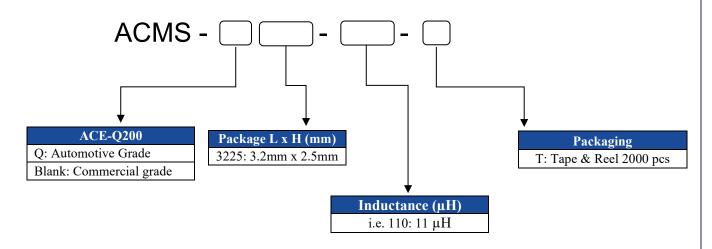


Materials



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

Part Identification





5101 Hidden Creek Ln, Spicewood TX 78669 Phone: 512-371-6159 Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISION Initial Release 3/31/2022

ABRACON IS ISO9001-2015 CERTIFIED



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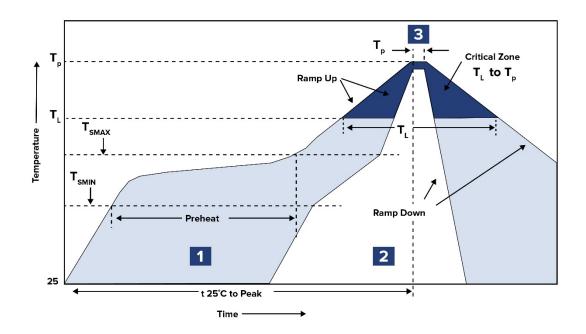


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$\begin{split} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{split}$	$60 \sim 120 \text{ sec.}$
2	Reflow	T _L 217°C	$60 \sim 150 \text{ sec.}$
3	Peak heat	T_P $250^{\circ}C \pm 5^{\circ}C$	30 sec. MAX





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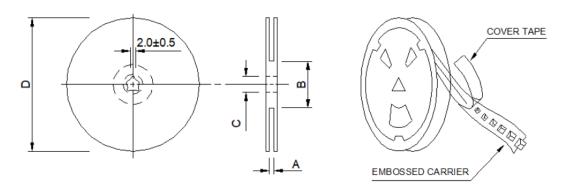
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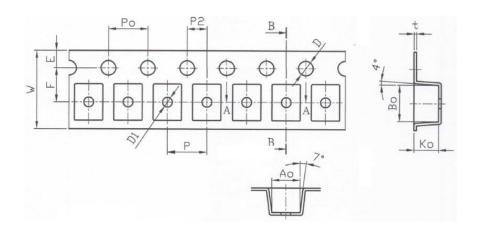
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Packaging

Tape & Reel: 2000pcs/reel



Series	A	В	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	Bo	Ao	Ko	D	D 1	t
8.0	4.0	1.75	3.5	4.0	2.0	3.72	2.88	2.5	1.5	1.00	0.26
± 0.10	±0.10	±0.10	±0.10	± 0.10	± 0.10	± 0.10	±0.10	±0.10	+0.10/-0	± 0.10	± 0.05

Dimensions: mm

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