

ACMS-Q3225E

Request Samples



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3.2 x 2.5 x 2.2 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 Ethernet**

Electrical Specifications

Part Number	Inductance (μH) (+50%/-30%)	$\begin{array}{c c} DCR & Rated \\ (m\Omega) & Current \\ (A) \end{array}$		Rated Voltage (Vdc)	Insulation Resistance $(M\Omega)$
	(+3070/-3070)	Max	Max	Max	Min
ACMS-Q3225E-101	100	1500	0.15	80	10
ACMS-Q3225E-201	200	4000	0.07	80	10

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

Inductance Test Conditions: 0.1MHz/0.1V

ACMS-Q3225E is AEC-Q200 Automotive certified

ACMS-Q3225E Series is RoHS Compliant and Pb free

Operating Temperature: -40°C to +125°C (Including self-heating)

Storage Temperature (on PCB): -40°C to +125°C Storage (in original packaging): <40°C, <70% RH





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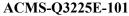


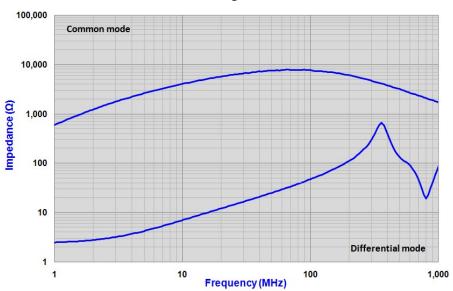
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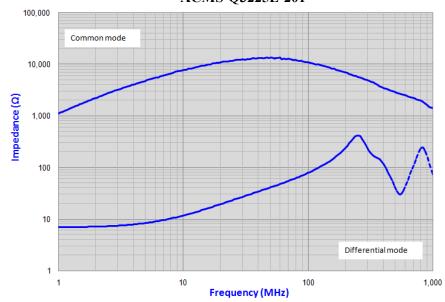
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Electrical Specifications





ACMS-Q3225E-201







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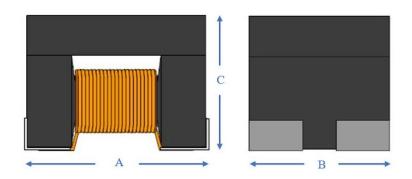


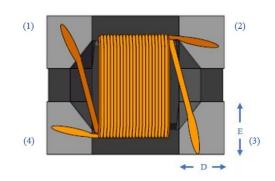
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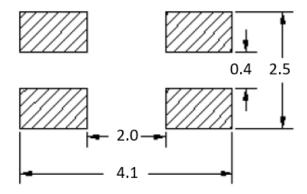
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Mechanical Specifications





A	В	C	D	E	
3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	0.7 Typ.	1.05 Typ.	



Recommended Layout

Dimensions: mm



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 3/30/2022

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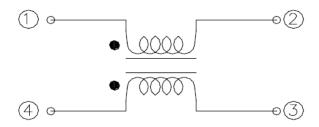


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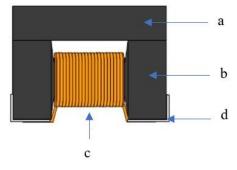


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Schematic

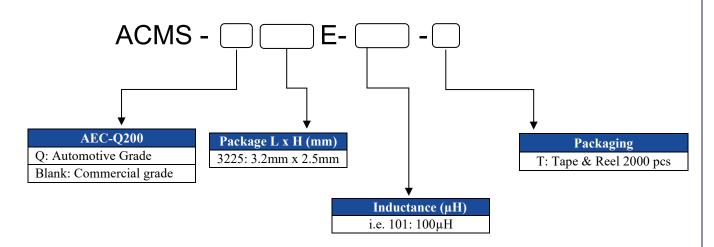


Materials



	Description	Specification			
a	Upper Plate	Ni-Zn Ferrite			
b	Core	Ni-Zn Ferrite			
С	Wire	Enameled copper wire			
d	Electrode	Ag/Ni/Sn			

Part Identification





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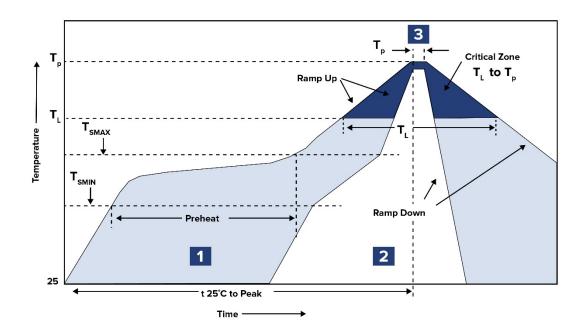


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Reflow Profile



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 220°C	60 ~ 90 sec.	
3	Peak heat	Т _Р 260°С	10 sec. MAX	





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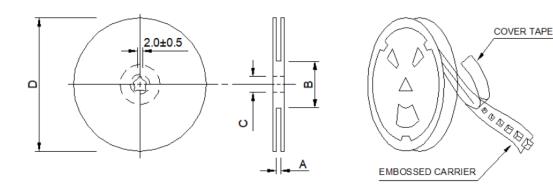
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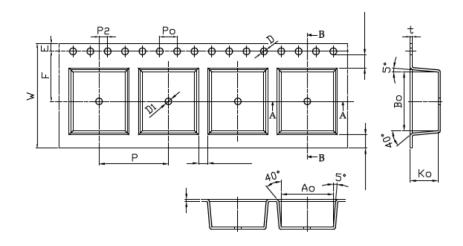
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Packaging

Tape & Reel: 2000pcs/reel



Series	A	В	C	D	
ACMS-Q3225	13.0 ± 0.5	100.0 ± 2.0	13.0 ± 0.5	330	



W	P	E	F	P0	P2	Bo	Ao	Ko	D	t
12.0	8.0	1.75	5.55	4.0	2.0	3.6	2.9	2.6	1.55	0.3
± 0.10	+0.10/-0	± 0.05								

Dimensions: mm

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