

ACMS-Q4523E

Request Samples



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4.5 x 3.2 x 2.3 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%/-25%)	DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance $(M\Omega)$
		Max	Max	Max	Min
ACMS-Q4523E-201	200	4500	0.11	50	10

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

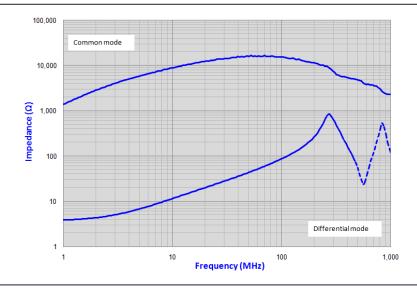
Inductance Test Conditions: 0.1MHz/0.1V

ACMS-Q4523E is AEC-Q200 Automotive certified. ACMS-Q4523E 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.

Performance Graph





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REVISION A 8/25/2023

ABRACON IS ISO9001-2015 CERTIFIED



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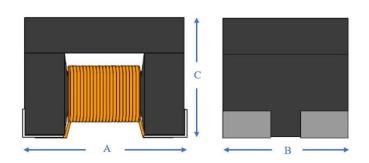


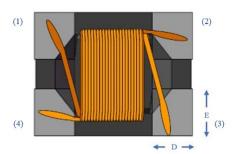
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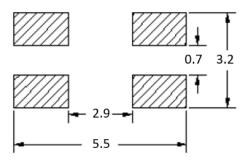


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Mechanical Specifications





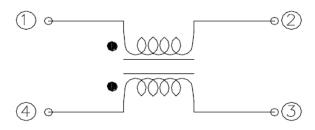


Recommended Layout

A	В	C	D	E
4.5 ± 0.2	3.2 ± 0.2	2.3 ± 0.2	1.0 ± 0.1	1.25 ± 0.1

Dimensions: mm

Schematic







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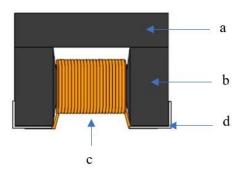


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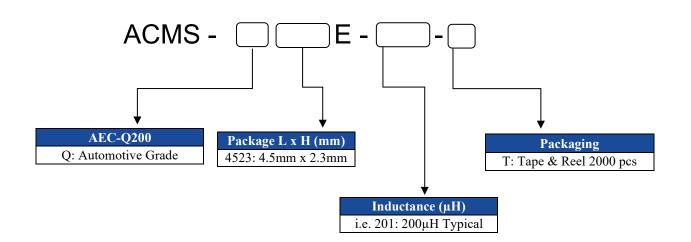
4.5 x 3.2 x 2.3 mm **RoHS/RoHS II Compliant** MSL Level = 1

Materials



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

Part Identification







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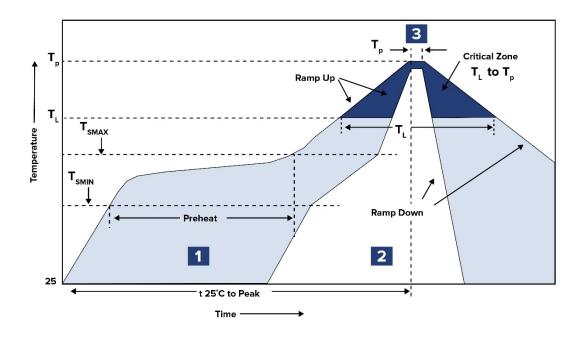


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Reflow Profile



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	T _P 260°C Max	10 sec. MAX





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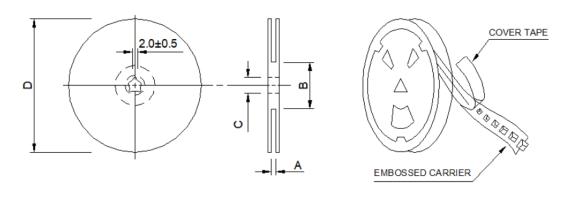
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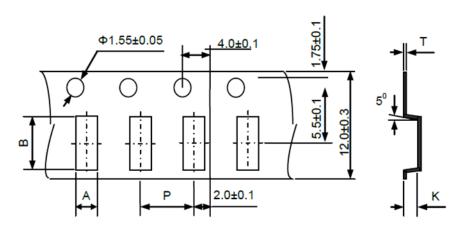
4.5 x 3.2 x 2.3 mm **RoHS/RoHS II Compliant** MSL Level = 1

Packaging

Tape & Reel: 2000pcs/reel



Series	A	В	C	D
ACMS-Q4523E	13.0 ± 0.5	100.0 ± 2.0	13.0 ± 0.5	330



A	В	P	K	T
3.51 ± 0.10	4.82 ± 0.10	8.0 ± 0.10	3.05 ± 0.10	0.35 ± 0.05

Dimensions: mm

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