

ACMS-Q4528

Request Samples



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4.5 x 3.2 x 2.8 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) (+50/-30%)	DCR (mΩ)	Rated Current (A)	Rated Voltage (Vdc)	Insulation Resistance $(M\Omega)$	
	Min	Typ.	,	Max	Max	Max	Min	
ACMS-Q4528-110	300	600	11	600	0.36	50	10	
ACMS-Q4528-220	500	1200	22	1000	0.31	50	10	
ACMS-Q4528-510	1000	2800	51	1000	0.23	50	10	
ACMS-Q4528-101	2000	5800	100	2000	0.20	50	10	

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

Inductance Test Conditions: 0.1V, 100KHz

ACMS-Q4528 is AEC-Q200 Automotive certified.

ACMS-Q4528 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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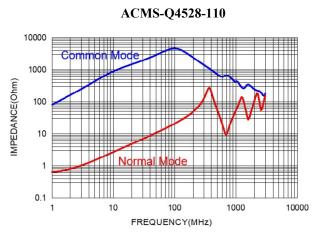


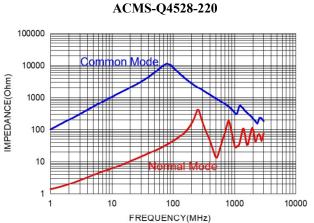
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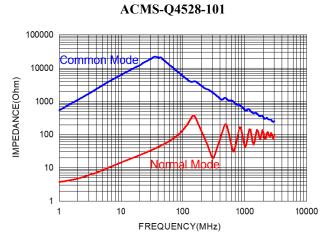
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Electrical Specifications





ACMS-Q4528-510 100000 10000 IMPEDANCE(Ohm) 1000 100 10 10 1000 100 10000 FREQUENCY(MHz)





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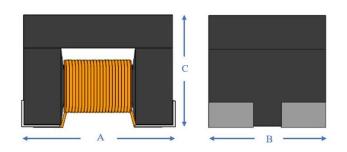


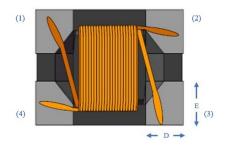
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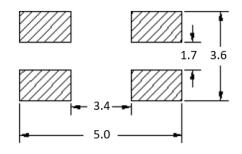


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Mechanical Specifications





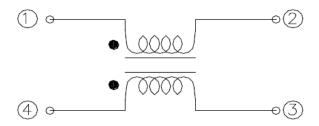


Recommended Layout

A	В	C	D	E
4.5 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	0.75 ± 0.2	0.85 ± 0.2

Dimensions: mm

Schematic







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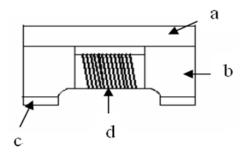


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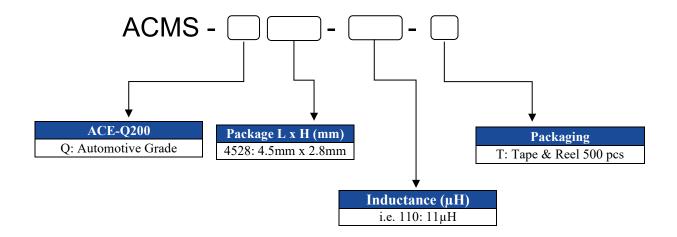
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Materials



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

Part Identification







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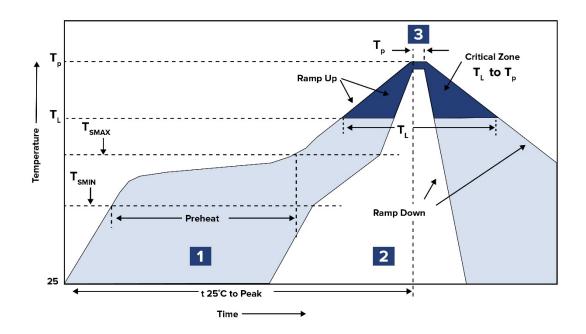


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$\begin{split} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{split}$	60 ~ 180 sec.
2	Reflow	T _L 217°C	$60 \sim 150 \text{ sec.}$
3	Peak heat	T_P 250°C ±5°C	30 sec. MAX





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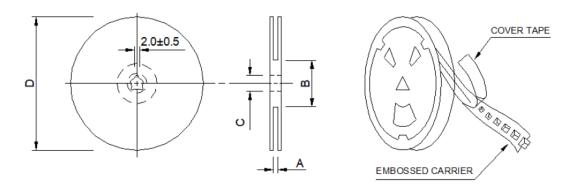
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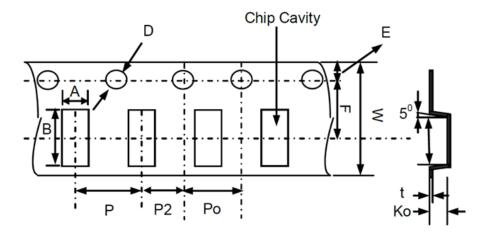
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Packaging

Tape & Reel: 500pcs/reel



Series	A	В	C	D
ACMS-Q4528	13.5 ± 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
12.0	8.0	1.75	5.5	4.0	2.0	4.9	3.6	3.0	1.5	1.5	0.26
± 0.10	+0.10/-0	± 0.10	± 0.05								

Dimensions: mm

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