

ACMS-Q3222F

Request Samples



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3.2 x 2.5 x 2.2mm **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 CANFD

Electrical Specifications

Part Number	Inductance (µH) (+50%/-30%)	DCR (mΩ)	Rated Current (A) Max	Rated Voltage (Vdc) Max	Insulation Resistance $(M\Omega)$ Min
ACMS-Q3222F-101	100	2500	0.15	50	10

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

Inductance Test Conditions: 0.1MHz/0.1V

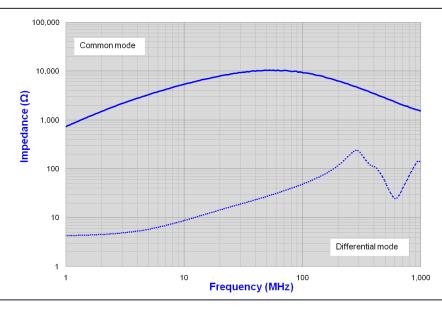
ACMS-Q3222F is AEC-Q200 Automotive certified.

ACMS-O3222F Series is RoHS Compliant and Pb free.

Operating Temperature: -40°C to +150°C (Including self-heating)

Storage Temperature (on PCB): -40° C to $+150^{\circ}$ C. Storage (in original packaging): <40°C, <70% RH.

Performance Graph





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REVISION A 8/24/2023

ABRACON IS ISO9001-2015 CERTIFIED



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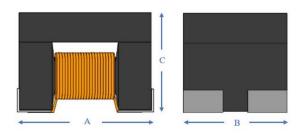


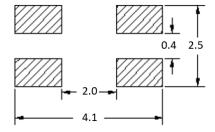
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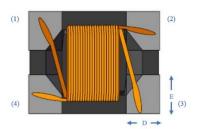


3.2 x 2.5 x 2.2mm RoHS/RoHS II Compliant MSL Level = 1

Mechanical Specifications





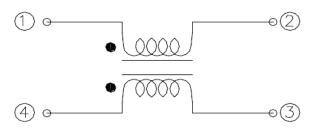


Recommended Layout

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

Dimensions: mm

Schematic







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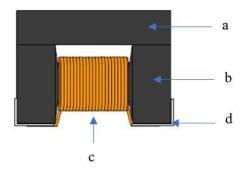


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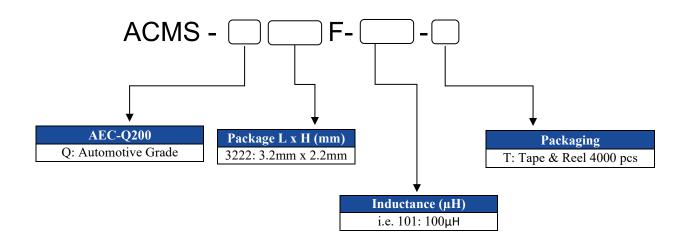
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Materials



	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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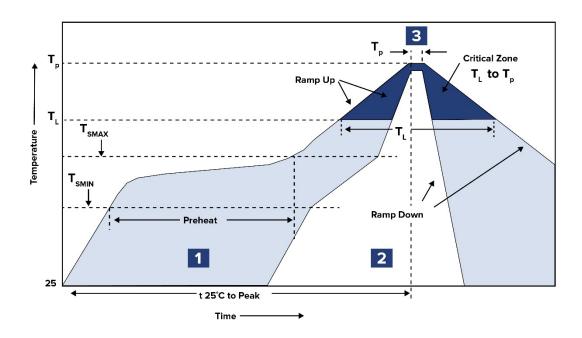


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Reflow Profile



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	T _P 260°C Max	10 sec. MAX





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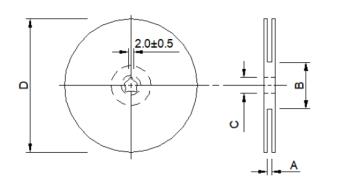
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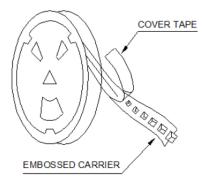


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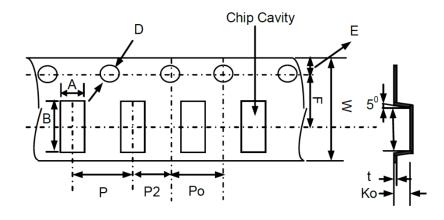
Packaging

Tape & Reel: 4000pcs/reel





Series	A	В	C	D	
ACMS-Q3222F	12.4 ± 0.1	100.0 ± 2.0	13.0 ± 0.5	330	



W	P1	E	F	P0	P2	В	A	Ko	D	t
12.0	4.0	1.75	5.5	4.0	2.0	3.5	2.85	2.85	1.5	0.3
±0.20	± 0.10	+0.10/-0	± 0.05							

Dimensions: mm

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