

ACMS-Q6527E

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6.5 x 4.5 x 2.7 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)	Rated Current (A)	DCR (Ω)	Insertion loss (dB) Max		Return Loss (dB) Min		
	Тур.	Max	Max	100 MHz	1-60 MHz	1-10 MHz	30 MHz	60 MHz
ACMS-Q6527E-101	100	0.35	2.0	-3.0	-1.0	-28	-23	-18
	Comr	non Mode l (dB) Mii	~	n	Differential to Common Mode Rejection (dB) Min			n
	1 MHz	10 MHz	60- 100 MHz	200- 1000 MHz	1-10 MHz	1(Ml		1000 MHz
	-18	-35	-43	-30	-70	-5	0	-25

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

Inductance Test Condition: 0.1V/100KHz

ACMS-Q6527E is AEC-Q200 Automotive certified

ACMS-Q6527E 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, <60% RH





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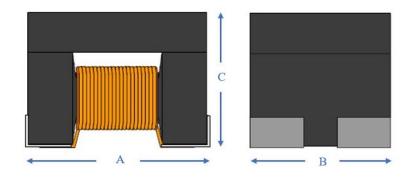


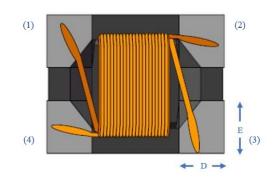
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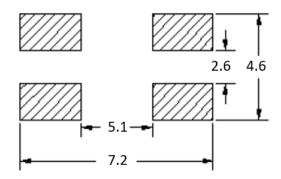
6.5 x 4.5 x 2.7 mm RoHS/RoHS II Compliant MSL Level = 1

Mechanical Specifications





A	В	C	D	E
6.5 ± 0.3	4.5 ± 0.2	2.7 ± 0.2	0.88 ± 0.2	0.9 ± 0.2



Recommended Layout

Dimensions: mm





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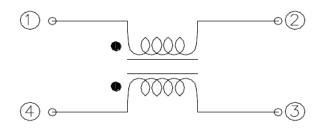


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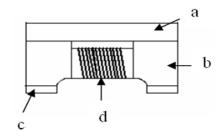


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Schematic

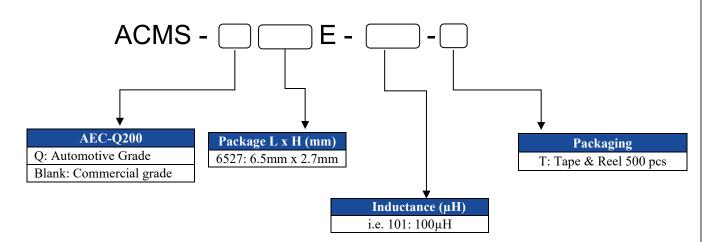


Materials



	Description	Specification
a	Upper Plate	Ferrite
b	Core	Ferrite Core
c	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 3/30/2022

ABRACON IS ISO9001-2015 CERTIFIED



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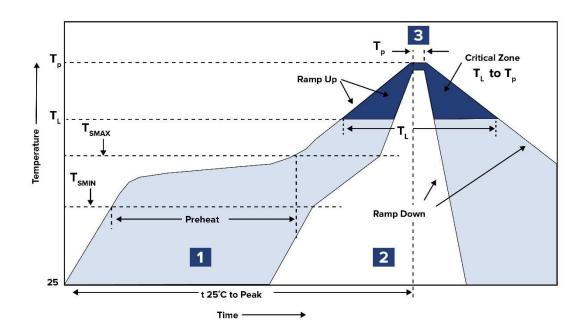


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$\begin{split} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{split}$	$60 \sim 180$ sec.
2	Reflow	T _L 217°C	60 ∼ 150 sec.
3	Peak heat	T_P 250°C ±5°C	10 sec. MAX





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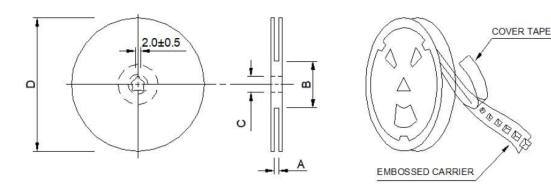
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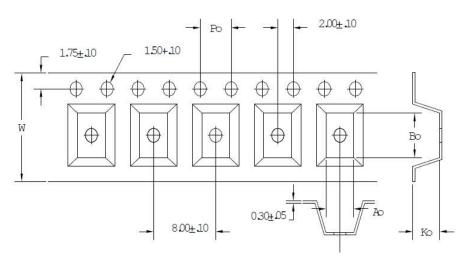
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Packaging

Tape & Reel: 500pcs/reel



Series	A	В	С	D
ACMS-Q6527E	16.7 ± 0.5	60.0 ± 2.0	13.5 ± 0.5	178 ±2.0



W	P0	Bo	Ao	Ko
16.0	4.0	6.9	4.9	2.9
± 0.30	± 0.10	± 0.10	± 0.10	± 0.10

Dimensions: mm

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