

#### 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( M)		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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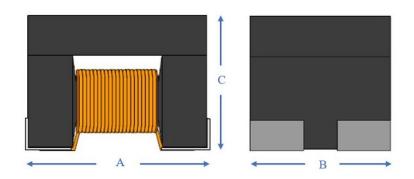


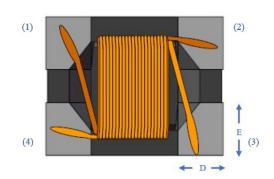
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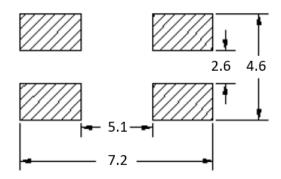
6.5 x 4.5 x 2.7 mm RoHS/RoHS II Compliant MSL Level = 1

### **Mechanical Specifications**





A	В	C	D	E
$6.5 \pm 0.3$	$4.5 \pm 0.2$	$2.7 \pm 0.2$	$0.88 \pm 0.2$	$0.9 \pm 0.2$



**Recommended Layout** 

Dimensions: mm





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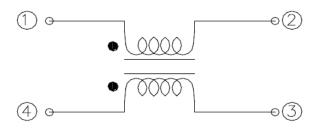


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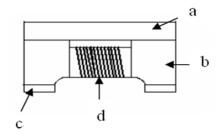


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#### **Schematic**

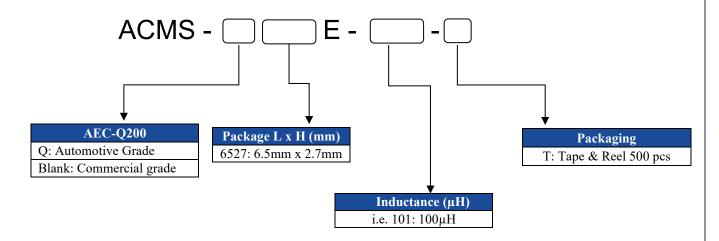


#### Materials



	Description	Specification
a	Upper Plate	Ferrite
b	Core	Ferrite Core
С	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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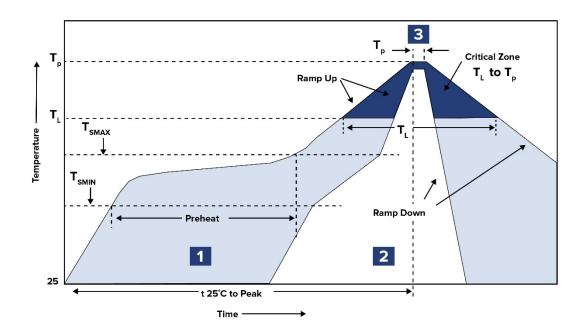


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#### **Reflow Profile**



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C$	$60 \sim 180 \; \text{sec.}$
2	Reflow	T <sub>L</sub> 217°C	$60 \sim 150 \text{ sec.}$
3	Peak heat	$T_P$ 250°C ±5°C	10 sec. MAX





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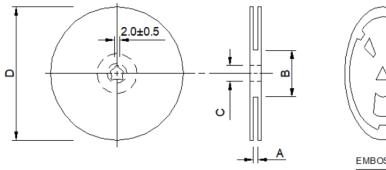
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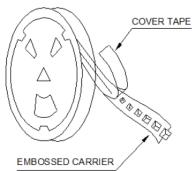


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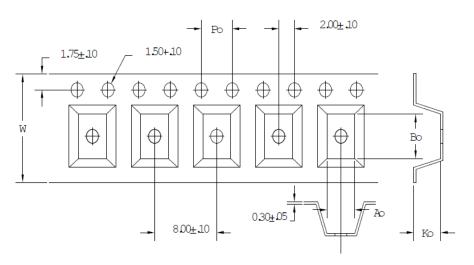
#### **Packaging**

Tape & Reel: 500pcs/reel





Series	A	В	С	D
ACMS-Q6527E	$16.7 \pm 0.5$	$60.0 \pm 2.0$	$13.5 \pm 0.5$	$178 \pm 2.0$



W	P0	Bo	Ao	Ko
16.0	4.0	6.9	4.9	2.9
$\pm 0.30$	$\pm 0.10$	$\pm 0.10$	$\pm 0.10$	$\pm 0.10$

Dimensions: mm

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