#### **Automotive Signal Common Mode Chokes ACMS-Q6527E** 6.5 x 4.5 x 2.7 mm Request Samples Check Inventory $(\mathbf{b})$ **RoHS/RoHS II Compliant** MSL Level = 1 Features **Applications** Differential signal line common mode noise AEC-Q200 compliant, Grade 1 • suppression. PPAP ready and supported •

- Multimedia devices
  - Automotive applications such as ADAS, Infotainment, Sensing, TCU
  - Automotive Ethernet

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
	Common Mode Rejection (dB) Min				Differential to Common Mode Rejection (dB) Min			
	l MHz	10 MHz	60- 100 MHz	200- 1000 MHz	1-10 MHz	10 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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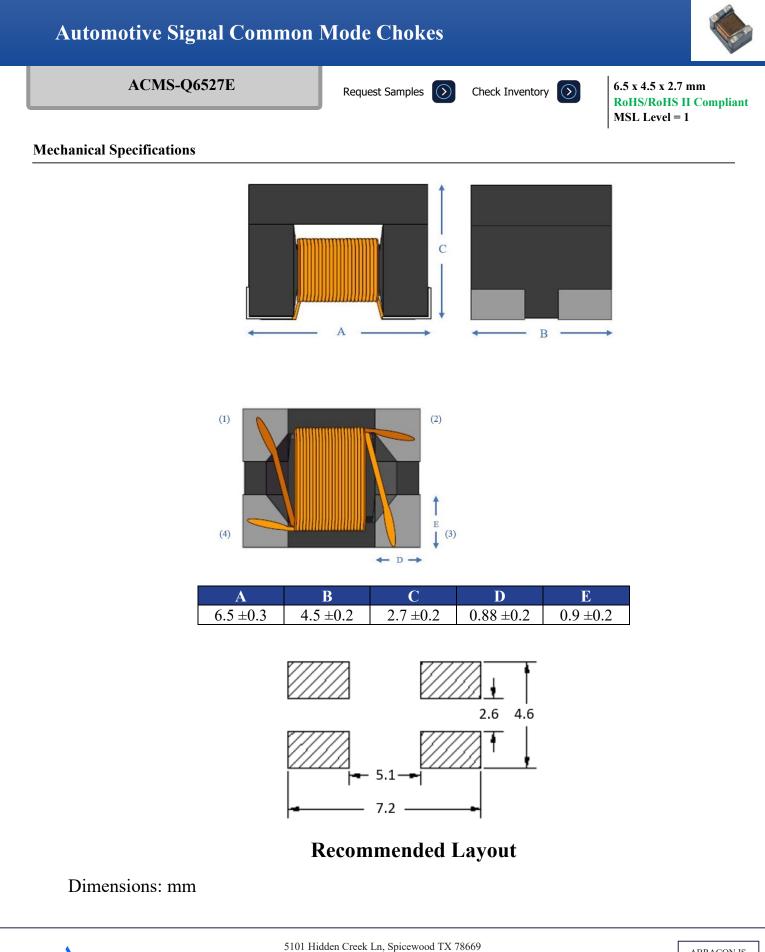
## **Electrical Specifications**

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Manufactured in TS/IATF 16949 production lines

Excellent impedance characteristics

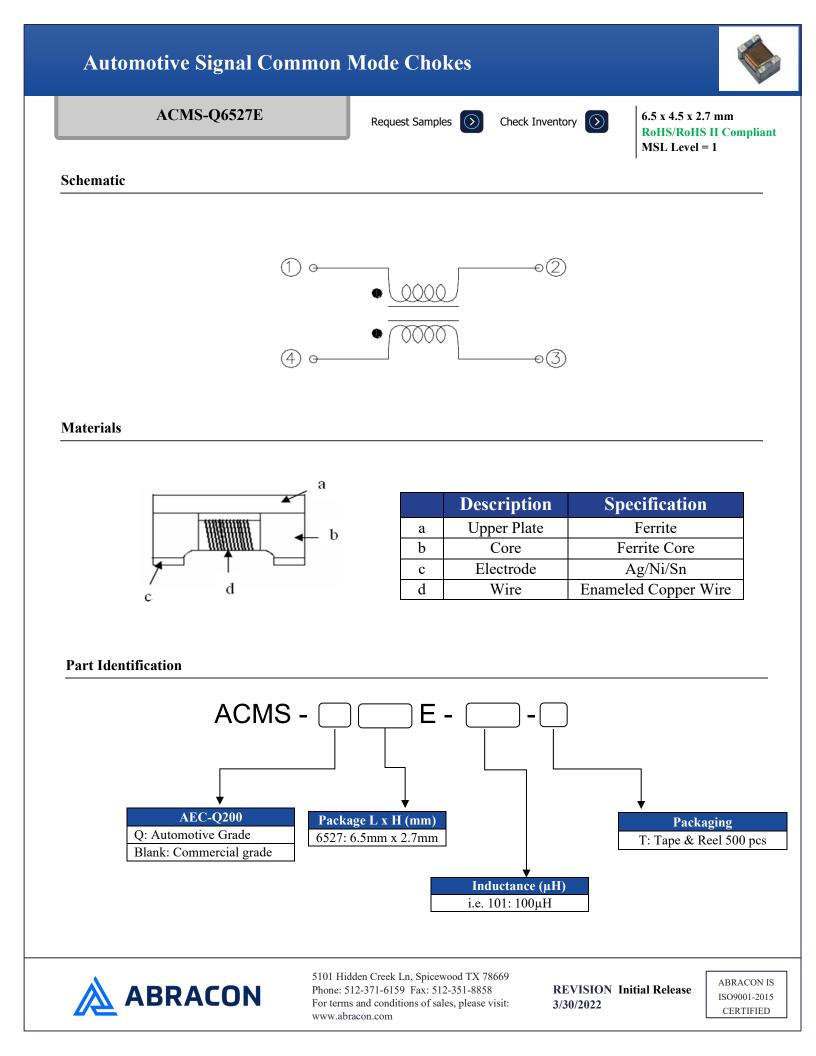


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# Automotive Signal Common Mode Chokes



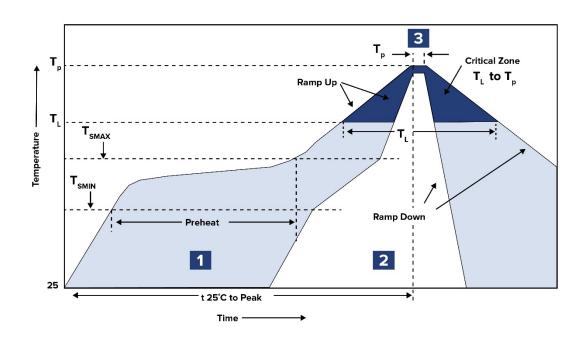
ACMS-Q6527E

Request Samples 🕥

Check Inventory

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

**Reflow Profile** 



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



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### **Automotive Signal Common Mode Chokes** ACMS-Q6527E 6.5 x 4.5 x 2.7 mm $\left( \right)$ Check Inventory Request Samples **RoHS/RoHS II Compliant** MSL Level = 1 Packaging Tape & Reel: 500pcs/reel COVER TAPE 2.0±0.5 Δ A B B B B O А EMBOSSED CARRIER Series B С D A $16.7 \pm 0.5$ ACMS-Q6527E $60.0 \pm 2.0$ $13.5 \pm 0.5$ $178 \pm 2.0$ 2.00±.10 Po 1.50+.10 1.75<u>+</u>10 $\oplus$ 9 $\oplus$ $\oplus$ $\oplus$ $\oplus$ $\oplus$ $\oplus$ W $\oplus$ Đ Æ Во

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

800<u>+</u>10

0.30+05

## Dimensions: mm

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