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Fast Facts



Product Group: Tantalum Capacitors (Division), Conformal Coated Capacitors (Technology) / Jan 2026

T51 Automotive Series Polymer Capacitors Extended Range Offer Crosses for AVX TCQ and TCO Automotive Series EOL

Vishay's T51 series of polymer capacitors is designed to meet the stringent requirements of automotive applications, from ADAS to under-the-hood systems. Our portfolio includes the latest ratings, featuring single-digit ESR in B, D, and V case sizes.

As announced by AVX on September 18, 2025, the TCQ and TCO automotive polymer capacitor series will be discontinued, with a last-time-buy date of December 31, 2025. To address the resulting gap in the automotive market, Vishay offers its expanded, automotive-qualified T51 portfolio to support customers in identifying suitable replacements.

Key Advantages

- Vishay Automotive Grade – Going beyond AEC-Q200 requirements
- Dual manufacturing – Two IATF 16949 certified facilities
- Ultra Low ESR – As little as 6 mΩ
- High volumetric efficiency

Useful Links

- [t51.pdf](#)
- Product Page
- Infographic

Road Map

- X Case
- > 35 V

Vishay and KAVX Case Size Decoding and Dimensions

EIA Code	EIA Metric	L mm (inches)	W mm (inches)	H mm (inches)	Vishay Case Code	KAVX Case Code
1210	3528-21	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	B	B
2917	7343-31	7.3 (0.287)	4.3 (0.169)	2.8 (0.110)	D	D
2917	7343-20	7.3 (0.287)	4.3 (0.169)	1.9 (0.075)	V	Y
2917	7343-43	7.3 (0.287)	4.3 (0.169)	4.3 (0.169)	X*	E

*X case on roadmap.

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T51 Product Portfolio

RATINGS AND CASE CODES (ESR mΩ)								
μF	2.5 V	4.0 V	6.3 V	10 V	16 V	20 V	25 V	35 V
2.2								B ⁽¹⁾ (300)
3.3								B ⁽¹⁾ (300)
4.7							B ⁽¹⁾ (300)	B ⁽¹⁾ (300)
6.8								D (120)
10						B ⁽¹⁾ (300)	D (120)	D (120), D ⁽¹⁾ (70)
15						B ⁽¹⁾ (300)	D (100), D ⁽¹⁾ (70)	
22			B (70)	B ⁽¹⁾ (70)		B ⁽¹⁾ (300) / D ⁽¹⁾ (70)	D (100)	
33		B (70)	B (70)	B ⁽¹⁾ (70)	V ⁽¹⁾ (70) / D (70)	D (100)	D (100, 60)	
47		B (70)	B (70)	B ⁽¹⁾ (70)	V ⁽¹⁾ (70) / D (70)	V ⁽¹⁾ (70) / D (70)	D (60)	
68		B (70)	B (70)	D (40, 25)	D (70)			
100	B (70), B ⁽¹⁾ (55)	B (70), B ⁽¹⁾ (55)	B (70)	D (40, 25)	D (50)			
150	B (70)	B (70) / D (40)	D (40, 25)	D (40, 25)	D (65)			
220	B (45) / V (40) / D (25), D ⁽¹⁾ (9)	V ⁽¹⁾ (25) D (40, 25)	B ⁽¹⁾ (70) / D (40, 25)	D (40, 25)				
330	V (40) / D (25), D ⁽¹⁾ (9)	D (40, 25)	B ⁽¹⁾ (70) / D (40, 25)					
470	D (25, 9, 6)	D (25)						
680	D ⁽¹⁾ (9, 6)	D (25)						

Note

⁽¹⁾ Rating in development, contact factory for availability



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KAVX Crosses

Cap	V	ESR	Case	KAVX PN	Vishay PN	Comment
100	2.5	55	B	TCQB107M002#0055E	T51B107M2R5C0055	Under Development
100	2.5	70	B	TCQB107M002#0070E	T51B107M2R5C0070	Available
470	2.5	6	D	TCQD477M002#0006M	T51D477M2R5C0006	Available
680	2.5	6	D	TCQD687M002#0006M	T51D687M2R5C0006	Under Development
680	2.5	9	D	TCQD687M002#0009M	T51D687M2R5C0009	Under Development
100	4	55	B	TCQB107M004#0055E	T51B107M004C0055	Under Development
100	4	70	B	TCQB107M004#0070E	T51B107M004C0070	Available
220	4	25	D	TCQD227M004#0025E	T51D227M004C0025	Available
220	4	25	Y	TCQY227M004#0025E	T51V227M004C0025	Under Development
330	4	25	D	TCQD337M004#0025E	T51D337M004C0025	Available
470	4	25	D	TCQD477M004#0025E	T51D477M004C0025	Available
22	6	70	B	TCQB226M006#0070E	T51B226M6R3C0070	Available
33	6	70	B	TCQB336M006#0070E	T51B336M6R3C0070	Available
47	6	70	B	TCQB476M006#0070E	T51B476M6R3C0070	Available
68	6	70	B	TCQB686M006#0070E	T51B686M6R3C0070	Available
100	6	45	B	TCQB107M006#0045E	T51B107M6R3C0045	Available
150	6	25	D	TCQD157M006#0025E	T51D157M6R3C0025	Available
150	6	40	D	TCQD157M006#0040E	T51D157M6R3C0040	Available
220	6	25	D	TCQD227M006#0025E	T51D227M6R3C0025	Available
330	6	25	D	TCQD337M006#0025E	T51D337M6R3C0025	Available
470	6	25	E	TCQE477M006#0025E	T51D477M6R3C0025	Available
470	6	50	E	TCQE477M006#0050E	T51D477M6R3C0025	Available
680	6	25	E	TCQE687M006#0025E	T51X687M6R3C0025	Road Map
680	6	50	E	TCQE687M006#0050E	T51X687M6R3C0050	Road Map
22	10	70	B	TCQB226M010#0070E	T51B226M010C0070	Under Development
33	10	70	B	TCQB336M010#0070E	T51B336M010C0070	Under Development
47	10	70	B	TCQB476M010#0070E	T51B476M010C0070	Under Development
68	10	25	D	TCQD686M010#0025E	T51D686M010C0025	Available
68	10	40	D	TCQD686M010#0040E	T51D686M010C0040	Available
100	10	25	D	TCQD107M010#0025E	T51D107M010C0025	Available
100	10	40	D	TCQD107M010#0040E	T51D107M010C0040	Available
150	10	25	D	TCQD157M010#0025E	T51D157M010C0025	Available
220	10	25	D	TCQD227M010#0025E	T51D227M010C0025	Available
330	10	25	E	TCQE337M010#0025E	T51X337M010C0025	Road Map
330	10	50	E	TCQE337M010#0050E	T51X337M010C0050	Road Map
470	10	25	E	TCQE477M010#0025E	T51X477M010C0025	Road Map
470	10	50	E	TCQE477M010#0050E	T51X477M010C0050	Road Map
15	16	90	B	TCQB156M016#0090E	T51B156M016C0090	Road Map
22	16	70	B	TCQB226M016#0070E	T51B226M016C0070	Road Map
33	16	70	D	TCQD336M016#0070E	T51D336M016C0070	Available
33	16	70	Y	TCQY336M016#0070E	T51V336M016C0070	Under Development
47	16	70	D	TCQD476M016#0070E	T51D476M016C0070	Available
47	16	70	Y	TCQY476M016#0070E	T51V476M016C0070	Under Development
68	16	70	D	TCQD686M016#0070E	T51D686M016C0070	Available
150	16	25	E	TCQE157M016#0025E	T51D157M016C0025	Available
150	16	40	E	TCQE157M016#0040E	T51D157M016C0040	Available

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10	20	150	B	TCQB106M020#0150E	T51B106M020C0300	Under Development
15	20	150	B	TCQB156M020#0150E	T51B156M020C0300	Under Development
22	20	150	B	TCQB226M020#0150E	T51B226M020C0300	Under Development
22	20	70	D	TCQD226M020#0070E	T51D226M020C0070	Under Development
33	20	70	D	TCQD336M020#0070E	T51D336M020C00100	Available
47	20	70	D	TCQD476M020#0070E	T51D476M020C0070	Available
47	20	70	Y	TCQY476M020#0070E	T51V476M020C0070	Under Development
100	20	40	E	TCQE107M020#0040E	T51X107M020C0040	Road Map
10	25	150	B	TCQB106M025#0150E	T51B106M025C00120	Available
15	25	70	D	TCQD156M025#0070E	T51D156M025C0070	Under Development
22	25	100	D	TCQD226M025#0100E	T51D226M025C0100	Available
33	25	60	D	TCQD336M025#0060E	T51D336M025C0060	Available
33	25	100	D	TCQD336M025#0100E	T51D336M025C0100	Available
47	25	65	D	TCQD476M025#0065E	T51D476M025C0060	Available
47	25	50	E	TCQE476M025#0050E	T51X476M025C0050	Road Map
68	25	60	E	TCQE686M025#0060E	T51X686M025C0060	Road Map
100	25	70	U	TCQU107M025R0070E	T51X107M025C0070	Road Map
4.7	35	150	B	TCQB475M035#0150E	T51D475M035C0300	Under Development
4.7	35	200	B	TCQB475M035#0200E	T51D475M035C0300	Under Development
10	35	200	B	TCQB106M035#0200E	T51D106M035C0120	Available
10	35	70	D	TCQD106M035#0070E	T51D106M035C0070	Under Development
15	35	125	D	TCQD156M035#0125E	T51D156M035C0125	Road Map
22	35	65	D	TCQD226M035#0065E	T51D226M035C0065	Road Map
22	35	100	D	TCQD226M035#0100E	T51D226M035C0100	Road Map
33	35	70	U	TCQU336M035R0070E	T51X336M035C0065	Road Map
33	35	65	E	TCQE336M035#0065E	T51X336M035C0065	Road Map
47	35	75	E	TCQE476M035#0075E	T51X476M035C0070	Road Map
47	35	70	U	TCQU476M035R0070E	T51X476M035C0070	Road Map
2.2	50	300	B	TCQB225M050#0300E	T51B225M050C0300	Road Map
3.3	50	300	B	TCQB335M050#0300E	T51B335M050C0300	Road Map
10	50	90	D	TCQD106M050#0090E	T51D106M050C0090	Road Map

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