



vPolyTan™ Polymer Surface-Mount Chip Capacitors Solid State Drive (SSD) Sample Kit



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES



3D Models



Models



Calculators

FEATURES

- Low ESR
- 100 % surge current tested
- Accelerated voltage conditioning
- High ripple current capability
- Stable capacitance in operating temperature range
- Better capacitance stability vs frequency
- No wear out effect
- Molded case 7343 EIA size
- Terminations: undertab
- Operating temperature: -55 °C to +105 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

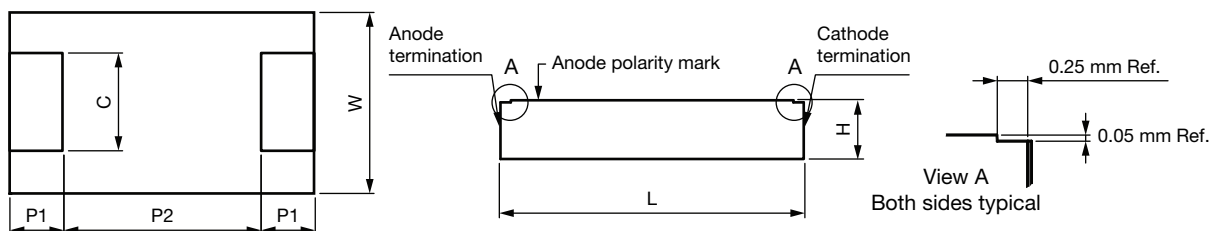
- Decoupling, smoothing, filtering
- Bulk energy storage in solid state drives (SSD)
- Infrastructure equipment
- Storage and networking
- Computer motherboards
- Smartphones and tablets

SPECIFICATIONS

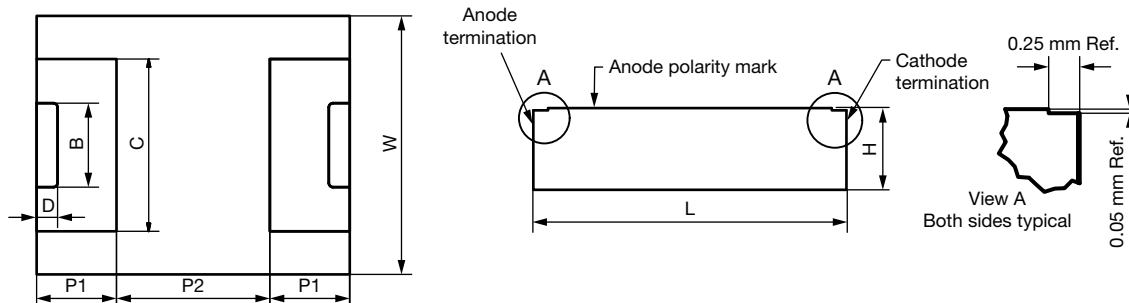
Part number	KIT-POLYTAN-SSD
Capacitor type	Conductive polymer
Capacitor tolerance	± 20 %
Operating temperature range	-55 °C to +105 °C
Termination finish	Ni / Pd / Au (T55), Sn (T52)
Moisture sensitivity level	3
Number of capacitors	See Capacitance Value List table

T52 DIMENSIONS in inches [millimeters]

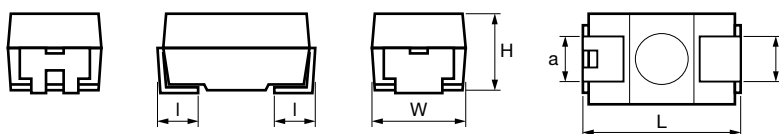
CASE CODE B2, E5



CASE CODE	EIA SIZE	H (MAX.)	L	W	P1	P2 (REF.)	C	B (REF.)	D (REF.)
B2	3528-12	0.047 [1.2]	0.138 ± 0.008 [3.5 ± 0.2]	0.110 ± 0.008 [2.8 ± 0.2]	0.031 ± 0.008 [0.8 ± 0.2]	0.077 [1.95]	0.079 ± 0.004 [2.0 ± 0.1]	-	-
E5	7343-15	0.059 [1.5]	0.287 ± 0.012 [7.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]	0.051 ± 0.008 [1.3 ± 0.2]	0.191 [4.85]	0.094 ± 0.008 [2.4 ± 0.2]	-	-

**T52 DIMENSIONS** in inches [millimeters]**CASE CODE M1, M9**

CASE CODE	EIA SIZE	H (MAX.)	L	W	P1	P2 (REF.)	C	B (REF.)	D (REF.)
M1	7360-20	0.079 [2.0]	0.287 ± 0.012 [7.3 ± 0.3]	0.236 ± 0.012 [6.0 ± 0.3]	0.075 ± 0.008 [1.9 ± 0.2]	0.138 [3.5]	0.177 ± 0.008 [4.5 ± 0.2]	0.079 [2.0]	0.020 [0.5]

T55 DIMENSIONS in inches [millimeters]

CASE CODE	EIA SIZE	L	W	H	I	a
Z	7343-19	0.287 ± 0.008 [7.3 ± 0.2]	0.169 ± 0.012 [4.3 ± 0.3]	0.071 ± 0.004 [1.8 ± 0.1]	0.051 ± 0.012 [1.3 ± 0.3]	0.094 ± 0.008 [2.4 ± 0.2]
D	7343-31	0.287 ± 0.008 [7.3 ± 0.2]	0.169 ± 0.012 [4.3 ± 0.3]	0.110 ± 0.012 [2.8 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.094 ± 0.008 [2.4 ± 0.2]

CAPACITANCE VALUE LIST

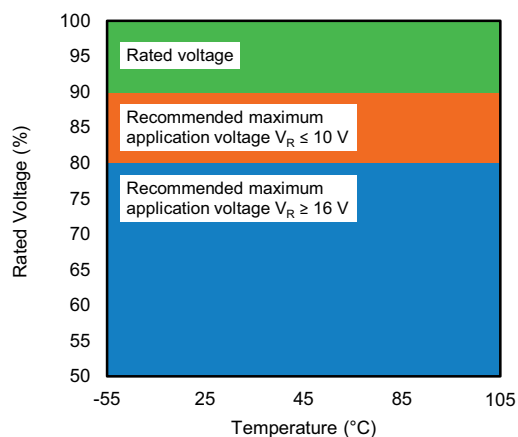
PART NUMBER	CAPACITANCE (μF)	VOLTAGE (V)	CASE CODE (SEE DIMENSIONS TABLE)	MAX. ESR AT +25 °C 100 kHz (mΩ)	NUMBER OF CAPACITORS
T52B2476M016C0200	47	16	B2	200	10
T52E5157M016C0050	150	16	E5	50	10
T52M1227M016C0055	220	16	M1	55	10
T52M1337M016C0040	330	16	M1	40	10
T52M1227M025C0070	220	25	M1	70	10
T52M1107M035C0055	100	35	M1	55	10
T52E5476M035C0055	47	35	E5	55	10
T55Z476M016C0045	47	16	Z	45	10
T55Z107M016C0050	100	16	Z	50	10
T55D157M016C0015	150	16	D	15	10
T55Z476M020C0070	47	20	Z	70	10
T55Z336M025C0050	33	25	Z	50	10



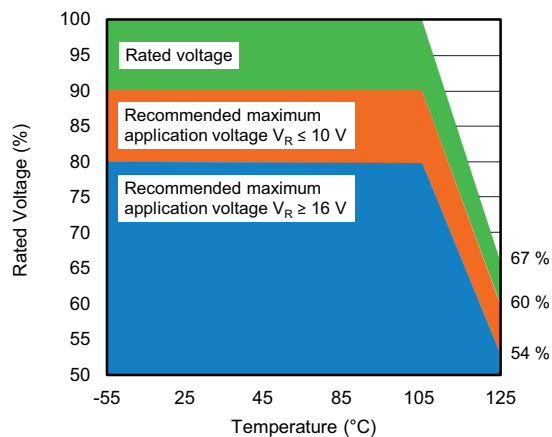
RECOMMENDED VOLTAGE DERATING GUIDELINES

CAPACITOR VOLTAGE RATING	OPERATING VOLTAGE
16	12.8
20	16
25	20
35	28

T52 RECOMMENDED TEMPERATURE DERATING



T55 RECOMMENDED TEMPERATURE DERATING



For PERFORMANCE CHARACTERISTICS tables, please refer to T52 datasheet (www.vishay.com/ppg?40216) and T55 datasheet (www.vishay.com/ppg?40174).

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