



## vPolyTan™ Polymer Surface-Mount Chip Capacitors Industrial Sample Kit



### 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 3528 and 7343 EIA size
- Terminations: wraparound (T59), L-shape (T58)
- Operating temperature: -55 °C to +105 °C
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

### LINKS TO ADDITIONAL RESOURCES



### APPLICATIONS

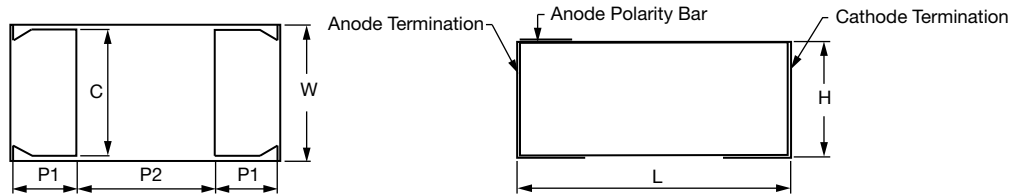
- Decoupling, smoothing, filtering
- Bulk energy storage
- Infrastructure equipment
- Storage and networking
- Computer motherboards
- Smartphones and tablets

SPECIFICATIONS	
Part number	KIT-POLYTAN-IND
Capacitor type	MAP polymer tantalum
Capacitor tolerance	± 20 %
Operating temperature range	-55 °C to +105 °C
Termination finish	Sn (T59 / T58)
Moisture sensitivity level	3
Number of capacitors	See Capacitance Value List table

T59 DIMENSIONS in inches [millimeters]						
CASE CODE	EIA SIZE	H (MAX.)	L	W	P1	P2 (REF.)
EE	7343-43	0.169 [4.3]	0.287 ± 0.012 [7.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.191 [4.85]



**T58 DIMENSIONS** in inches [millimeters]



CASE CODE	EIA SIZE	H (MAX.)	L	W	P1	P2 (REF.)	C
BB	3528-20	0.079 [2.0]	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]	0.094 ± 0.004 [2.4 ± 0.1]

**CAPACITANCE VALUE LIST**

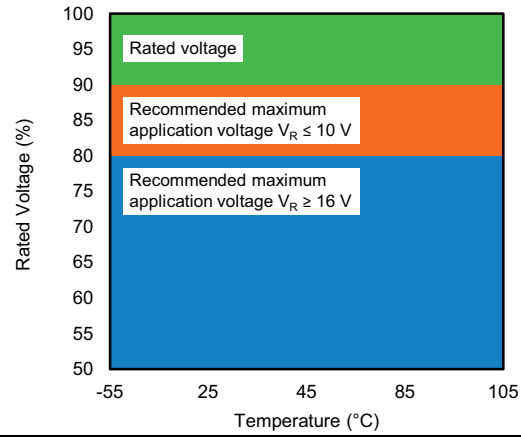
PART NUMBER	CAPACITANCE (μF)	VOLTAGE (V)	CASE CODE (SEE DIMENSIONS TABLE)	MAX. ESR AT +25 °C 100 kHz (mΩ)	NUMBER OF CAPACITORS
T59EE227M016C0025	220	16	EE	25	6
T59EE337M016C0025	330	16	EE	25	6
T59EE477M016C0020	470	16	EE	20	6
T59EE157M030C0075	150	30	EE	75	6
T59EE476M035C0055	47	35	EE	55	6
T59EE226M050C0100	22	50	EE	100	6
T59EE476M050C0100	47	50	EE	100	6
T59EE226M063C0100	22	63	EE	100	6
T59EE156M075C0100	15	75	EE	100	6
T59EE226M075C0100	22	75	EE	100	6
T58BB476M016C0090	47	16	BB	90	6
T58BB226M025C0100	22	25	BB	100	6

**RECOMMENDED VOLTAGE DERATING GUIDELINES**

CAPACITOR VOLTAGE RATING	OPERATING VOLTAGE
16	12.8
25	20
30	24
35	28
50	40
63	50
75	60



## T58, T59 RECOMMENDED TEMPERATURE DERATING



For PERFORMANCE CHARACTERISTICS tables, please refer to T58 datasheet ([www.vishay.com/ppg?40189](http://www.vishay.com/ppg?40189)) and T59 datasheet ([www.vishay.com/ppg?40191](http://www.vishay.com/ppg?40191)).