



vPolyTan™ Polymer Surface-Mount Chip Capacitors T55 Single Digit mΩ ESR Sample Kit



FEATURES

- Ultra 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
- Moisture sensitivity level 3
- Operating temperature: -55 °C to +105 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES



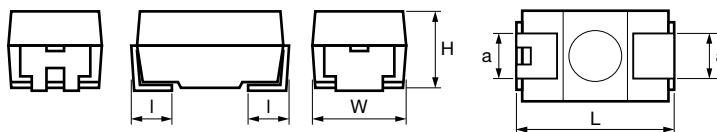
APPLICATIONS

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

SPECIFICATIONS

Part number	KIT-POLYTAN-LOWESR
Capacitor type	Molded chip polymer tantalum
Capacitor tolerance	± 20 %
Operating temperature range	-55 °C to +105 °C
Termination finish	Ni / Pd / Au
Moisture sensitivity level	3
Number of capacitors	12 ratings of 10 capacitors each

DIMENSIONS in inches [millimeters]



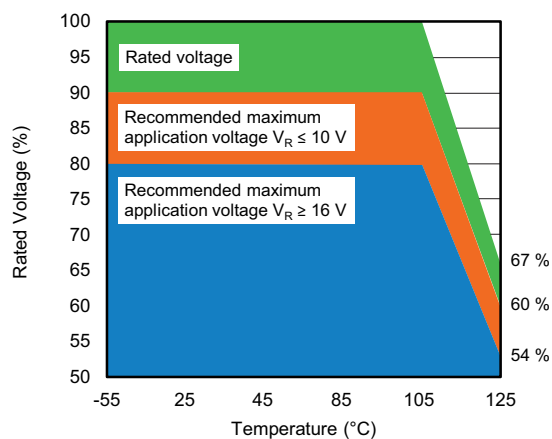
CASE CODE	EIA SIZE	L	W	H	I	a
D	7343-31	0.287 ± 0.008 [7.3 ± 0.2]	0.169 ± 0.012 [4.3 ± 0.3]	0.110 ± 0.012 [2.8 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.094 ± 0.008 [2.4 ± 0.2]

**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
T55D108M2R5C0006	1000	2.5	D	6	10
T55D108M2R5C0007	1000	2.5	D	7	10
T55D108M2R5C0008	1000	2.5	D	8	10
T55D687M004C0006	680	4	D	6	10
T55D687M004C0007	680	4	D	7	10
T55D687M004C0008	680	4	D	8	10
T55D477M6R3C0007	470	6.3	D	7	10
T55D477M6R3C0008	470	6.3	D	8	10
T55D477M6R3C0009	470	6.3	D	9	10
T55D337M010C0007	330	10	D	7	10
T55D337M010C0008	330	10	D	8	10
T55D337M010C0009	330	10	D	9	10

RECOMMENDED VOLTAGE DERATING GUIDELINES

CAPACITOR VOLTAGE RATING	OPERATING VOLTAGE
2.5	2.3
4.0	3.6
6.3	5.7
10	9.0

RECOMMENDED TEMPERATURE DERATING

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay:

[KIT-POLYTAN-LOWESR](#)