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Vishay Extends Reliability of the T95 and T97 Series of Hi-Rel COTS Conformal Coated Tantalum Capacitors

Our Tantalum Capacitor Division is pleased to announce that it has extended reliability for tantalum MnO₂ chip capacitors to a Level C Weibull failure rate. With the addition of the higher reliability offering, we've achieved the established reliability failure rate of 0.01 % / 1000 hours, which was previously only available on low capacitance / voltage (CV) military-grade parts. It also extends the available CV values for use in hi-rel applications such as power conversion, power distribution, radars, sensors, filtering, and bulk capacitance applications. Our Hi-Rel COTS series are designed for avionics, military, space, and industrial markets.

T95 Series: Solid Tantalum Chip Capacitors, TANTAMOUNT™, Hi-Rel COTS, Conformal Coated. The T95 is the high reliability version of our 595D series. Low ESR options are available, and the devices are now offered in 22 unique ratings with A, B, C, S, and Z FRL available.

Part Number	Capacitance (µF)	Voltage (V)	Case Code
T95B156(1)010(2)(7)(4)(5)	15	10	B
T95D127(1)010(2)(7)(4)(5)	120	10	D
T95D337(1)010(2)(7)(4)(5)	330	10	D
T95B156(1)016(2)(7)(4)(5)	15	16	B
T95B226(1)016(2)(7)(4)(5)	22	16	B
T95C107(1)016(2)(7)(4)(5)	100	16	C
T95R187(1)016(2)(7)(4)(5)	180	16	R
T95V335(1)020(2)(7)(4)(5)	3.3	20	V
T95Z226(1)020(2)(7)(4)(5)	22	20	Z
T95R107(1)020(2)(7)(4)(5)	100	20	R
T95R127(1)020(2)(7)(4)(5)	120	20	R
T95R157(1)020(2)(7)(4)(5)	150	20	R
T95Y685(1)025(2)(7)(4)(5)	6.8	25	Y
T95C106(1)025(2)(7)(4)(5)	10	25	C
T95_336(1)025(2)(7)(4)(5)	33	25	D / R
T95_686(1)025(2)(7)(4)(5)	68	25	D / R
T95S105(1)035(2)(7)(4)(5)	1	35	S
T95Z106(1)035(2)(7)(4)(5)	10	35	Z
T95D156(1)035(2)(7)(4)(5)	15	35	D
T95C475(1)050(2)(7)(4)(5)	4.7	50	C

* See datasheet for options available for part numbers.



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T97 Series: Solid Tantalum Chip Capacitors TANTAMOUNT™, Hi-Rel COTS, Ultra-Low ESR, Conformal Coated Case. The T97 is the high reliability version of our 597D series. The devices' dual-anode construction ensures the lowest ESR in their class. The capacitors are available in 39 unique ratings with A, B, C, S, & Z FRL available.

Part Number	Capacitance (µF)	Voltage (V)	Case Code
T97V337(1)004(2)(7)(5)	330	4	V
T97_477(1)004(2)(7)(5)	470	4	V / E
T97E687(1)004(2)(7)(5)	680	4	E
T97R108(1)004(2)(7)(5)	1,000	4	R
T97F158(1)004(2)(7)(5)	1,500	4	F
T97E337(1)6R3(2)(7)(5)	330	6.3	E
T97E477(1)6R3(2)(7)(5)	470	6.3	E
T97R687(1)6R3(2)(7)(5)	680	6.3	R
T97F108(1)6R3(2)(7)(5)	1,000	6.3	F
T97E227(1)010(2)(7)(5)	220	10	E
T97_337(1)010(2)(7)(5)	330	10	E / F
T97H477(1)010(2)(7)(5)	470	10	H
T97H687(1)010(2)(7)(5)	680	10	H
T97R227(1)016(2)(7)(5)	220	16	R
T97_337(1)016(2)(7)(5)	330	16	F / H
T97R686(1)020(2)(7)(5)	68	20	R
T97F107(1)020(2)(7)(5)	100	20	F
T97F157(1)020(2)(7)(5)	150	20	F
T97M227(1)020(2)(7)(5)	220	20	M
T97R476(1)025(2)(7)(5)	47	25	R
T97_107(1)025(2)(7)(5)	100	25	F / H
T97_156(1)035(2)(7)(5)	15	35	E / R
T97R226(1)035(2)(7)(5)	22	35	R
T97F336(1)035(2)(7)(5)	33	35	F
T97_476(1)035(2)(7)(5)	47	35	Z / H / N
T97D106(1)050(2)(7)(5)	10	50	D
T97R156(1)050(2)(7)(5)	15	50	R
T97F226(1)050(2)(7)(5)	22	50	F
T97Z336(1)050(2)(7)(5)	33	50	Z
T97R156M063(2)(7)(5)	15	63	R
T97_226(1)063(2)(7)(5)	22	63	Z / H

* See datasheet for options available for part numbers.



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Useful Links

- T95 product page www.vishay.com/ppg?40081
- T97 product page www.vishay.com/ppg?40092

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