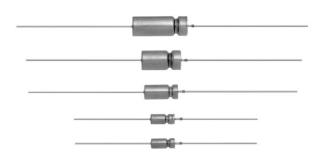


Wet Tantalum HI TMP® Capacitors Tantalum-Case with Glass-to-Tantalum Hermetic Seal for - 55 °C to + 200 °C Operation



FEATURES

Vishay 134D HI TMP® represents a major breakthrough in wet tantalum capacitor technology for high temperature (+ 200 °C) applications such as that seen in the petroleum exploration industry. Its unique design provides for the highest capacitance per unit volume. The design facilitates a doubling of capacitance when compared with conventional wet tantalum products.

The 134D is housed in an all tantalum, hermetically sealed case and is manufactured to withstand high stress and hazardous environments.

- Terminations: standard tin/lead (SnPb)
- 100 % Tin (RoHS compliant) available

PERFORMANCE CHARACTERISTICS

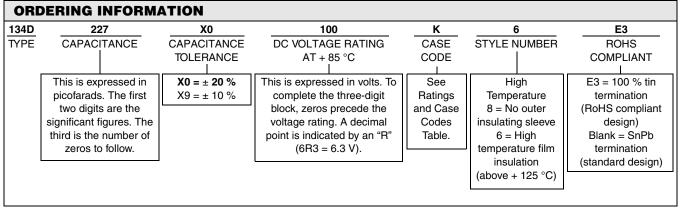
Operating Temperature: - 55 °C to + 85 °C (to + 200 °C with voltage derating)

Capacitance Tolerance: At 120 Hz, + 25 °C; ± 20 %

standard; ± 10 %

DC Leakage Current (DCL Max.): At + 25 °C and above: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

Life Test: Capacitors are capable of withstanding a 500 h life test at a temperature of + 200 °C at the applicable derated DC working voltage.



Note

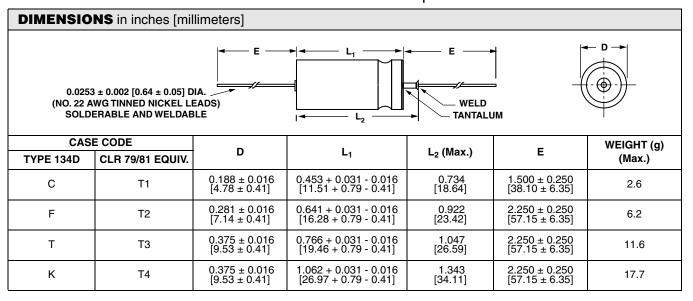
Packaging: The use of formed plastic trays for packaging this type of axial lead component is standard. Tape and reel is not recommended due to the unit weight.

^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

Vishay Sprague

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CAPACITANCE AT 25 °C AND 120 Hz	CASE CODE	MAX. 120 Hz ESR Ω	MAX. DCL μA		MAXIMUM		TYPICAL				AC
			25 °C	85 °C AND 125 °C	IMP, Z AT - 25 °C Ω	∆CAP. AT - 25 °C	IMP, Z AT - 55 °C Ω	ΔCAP. AT - 55 °C %	ΔCAP. + 85 °C %	ΔCAP. + 125 °C %	RIPPLE ⁽¹⁾ 85 °C 40 kHz mA rms
			50 VDC	AT 85 °C .	30 VDC	AT 125 °C	. 30 VDC A	T 200 °C			
68	С	1.50	1	5	22	- 6 %	25	- 11 %	12 %	55 %	1400
220	F	0.90	2	10	9	- 15 %	10	- 25 %	13 %	50 %	2300
470	Т	0.75	3	25	6	- 24 %	8	- 50 %	10 %	25 %	2650
680	K	0.70	5	40	4	- 22 %	5	- 40 %	12 %	40 %	2900
			60 VDC	AT 85 °C .	40 VDC	AT 125 °C	. 36 VDC A	T 200 °C			
47	С	2.00	1	5	34	- 8 %	40	- 20 %	8 %	12 %	1250
150	F	1.10	2	10	13	- 11 %	15	- 25 %	10 %	30 %	2050
390	Т	0.90	3	25	7	- 27 %	10	- 50 %	10 %	25 %	2450
560	K	0.80	5	40	5	- 21 %	6	- 40 %	12 %	40 %	2700
			75 VDC	AT 85 °C .	50 VDC	AT 125 °C	. 45 VDC A	T 200 °C			
33	С	2.50	1	5	45	- 3.5 %	50	- 6 %	8 %	25 %	1100
110	F	1.30	2	10	16	- 8 %	20	- 18 %	8 %	30 %	1900
330	Т	1.00	3	30	8	- 30 %	12	- 50 %	10 %	25 %	2300
470	K	0.90	5	50	6	- 20 %	7	- 40 %	10 %	40 %	2550
		1	100 WVDC	AT 85 °C	65 WVDC	AT 125 °C	60 WVD	C AT 200 °C	;		
15	С	3.50	1	5	95	- 2.5 %	100	- 4 %	8 %	25 %	950
68	F	2.10	2	10	25	- 6 %	30	- 14 %	8 %	25 %	1500
150	Т	1.60	3	25	14	- 12 %	18	- 30 %	8 %	22 %	1800
220	K	1.20	5	50	13	- 44 %	16	- 55 %	8 %	15 %	2200
			125 VD	C AT 85 °C	85 VDC	AT 125 °C	75 VDC A	T 200 °C			
10	С	5.50	1	5	145	- 2.5 %	150	- 4 %	8 %	20 %	750
47	F	2.30	2	10	35	- 5 %	40	- 12 %	7 %	20 %	1450
50	F	2.30	3	10	35	- 5 %	40	- 12 %	7 %	20 %	1450
100	Т	1.80	3	25	24	- 20 %	30	- 35 %	8 %	20 %	1700
150	K	1.60	5	50	13	- 10 %	16	- 28 %	6 %	12 %	1900

Note

(1) For insulated parts, add 0.015 inches [0.38] to the diameter. The insulation shall lap over the ends of the capacitor body.



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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com