

TC and TCO Series Standard Tantalum and Conductive Polymer Electrolytic Capacitors



Features: Small package, large capacitance chip tantalum capacitor. These low impedance capacitors are ideal for digital and low voltage circuits used in portable electronic equipment.

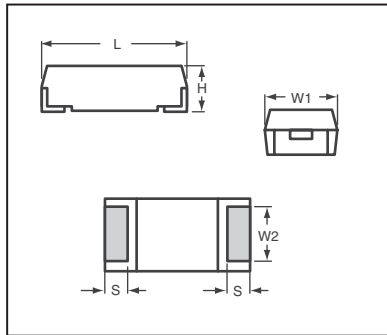
TC Series:

Specifications: • Capacitance Tolerance: ±20% • Operating Temperature Range: -55°C - 125°C (derated voltage from 85°C - 125°C) • Tangent of Loss Angle: Maximum 24% at 120Hz (25°C) • Leakage Current: 0.5µA or 0.01CV whichever is greater • Impedance: Max 27.5Ω at 100kHz

TCO Series:

Specifications: • Capacitance Tolerance: ±20% • Operating Temperature Range: -55°C - 105°C (derated voltage from 85°C - 105°C) • Tangent of Loss Angle: (A size code) Maximum 6% at 120Hz (25°C) (B size code) Maximum 8% at 120Hz (25°C) • Leakage Current: (A size code) 3µA or 0.1CV whichever is greater (B size code) less than 0.1CV µA • Impedance: (A size code) Max 0.3 or 0.5 or 0.8Ω at 100kHz (B size code) Maximum 0.2Ω at 100kHz

Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8
1608	M	1.6	0.85	0.55	0.8	0.5
3528	B	3.5	2.8	1.9	1.9	0.8

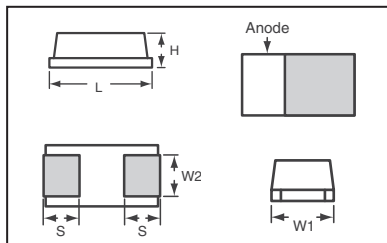


W.V. (DC)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
				1	10	100		Qty.	Pricing	
TC Series — Standard Tantalum										
4	2.2	P	511-1427-1-ND	24	2.05	1793	511-1427-2-ND	3,000	84.95/M	TCPOG225M8R
	3.3	P	511-1428-1-ND	24	2.05	1793	511-1428-2-ND	3,000	84.95/M	TCPOG335M8R
	4.7	A	511-1429-1-ND	24	2.05	1793	511-1429-2-ND	2,000	84.94/M	TCOA0475M8R
	10	A	511-1430-1-ND	24	2.05	1793	511-1430-2-ND	2,000	84.94/M	TCA0G106M8R
	10	P	511-1431-1-ND	24	2.05	1793	511-1431-2-ND	3,000	84.95/M	TCPOG106M8R
	15	A	511-1432-1-ND	29	2.53	22.07	511-1432-2-ND	2,000	104.55/M	TCA0G156M8R
	15	P	511-1433-1-ND	28	2.43	21.24	511-1433-2-ND	3,000	100.92/M	TCPOG156M8R
	22	A	511-1434-1-ND	24	2.05	1793	511-1434-2-ND	2,000	84.94/M	TCA0G226M8R
	22	P	511-1435-1-ND	36	3.06	26.76	511-1435-2-ND	3,000	127.05/M	TCPOG226M8R
	22	M	511-1493-1-ND	44	3.79	33.11	511-1493-2-ND	4,000	156.82/M	TCM0G226M8R
	33	A	511-1436-1-ND	24	2.05	1793	511-1436-2-ND	2,000	84.94/M	TCA0G336M8R
	47	A	511-1437-1-ND	24	2.05	1793	511-1437-2-ND	2,000	84.94/M	TCA0G476M8R
6.3	1.5	P	511-1438-1-ND	24	2.05	1793	511-1438-2-ND	3,000	84.95/M	TCPOJ155M8R
	2.2	P	511-1439-1-ND	24	2.05	1793	511-1439-2-ND	3,000	84.95/M	TCPOJ225M8R
	3.3	A	511-1440-1-ND	24	2.05	1793	511-1440-2-ND	2,000	84.94/M	TCA0J335M8R
	3.3	P	511-1441-1-ND	24	2.05	1793	511-1441-2-ND	3,000	84.95/M	TCPOJ335M8R
	4.7	A	511-1442-1-ND	24	2.05	1793	511-1442-2-ND	2,000	84.94/M	TCA0J475M8R
	4.7	P	511-1443-1-ND	24	2.05	1793	511-1443-2-ND	3,000	84.95/M	TCPOJ475M8R
	6.8	P	511-1445-1-ND	28	2.43	21.24	511-1445-2-ND	3,000	100.92/M	TCPOJ685M8R
	10	A	511-1446-1-ND	24	2.05	1793	511-1446-2-ND	2,000	84.94/M	TCA0J106M8R
	10	P	511-1447-1-ND	26	2.24	19.59	511-1447-2-ND	3,000	92.93/M	TCPOJ106M8R
	10	M	511-1494-1-ND	44	3.79	33.11	511-1494-2-ND	4,000	156.82/M	TCM0J106M8R
	15	P	511-1448-1-ND	47	4.07	35.59	511-1448-2-ND	3,000	168.44/M	TCPOJ156M8R
	15	A	511-1449-1-ND	24	2.05	1793	511-1449-2-ND	2,000	84.94/M	TCA0J156M8R
10	2.2	A	511-1450-1-ND	22	1.87	16.28	511-1450-2-ND	2,000	76.96/M	TCA0J226M8R
	3.3	A	511-1451-1-ND	24	2.05	1793	511-1451-2-ND	2,000	84.94/M	TCA0J336M8R
	4.7	A	511-1452-1-ND	24	2.05	1793	511-1452-2-ND	2,000	84.94/M	TCA0J476M8R
	1	P	511-1453-1-ND	21	1.83	16.00	511-1453-2-ND	3,000	75.51/M	TCPIA105M8R
	1.5	P	511-1454-1-ND	24	2.05	1793	511-1454-2-ND	3,000	84.95/M	TCPIA155M8R
	1.5	A	511-1455-1-ND	24	2.05	1793	511-1455-2-ND	2,000	84.94/M	TCA1A155M8R
	2.2	A	511-1456-1-ND	24	2.05	1793	511-1456-2-ND	2,000	84.94/M	TCA1A225M8R
	2.2	M	511-1495-1-ND	40	3.48	30.35	511-1495-2-ND	4,000	143.75/M	TCM1A225M8R
	2.2	P	511-1457-1-ND	24	2.05	1793	511-1457-2-ND	3,000	84.95/M	TCPIA225M8R
	3.3	P	511-1458-1-ND	24	2.05	1793	511-1458-2-ND	3,000	84.95/M	TCP1A335M8R
	3.3	A	511-1459-1-ND	24	2.05	1793	511-1459-2-ND	2,000	84.94/M	TCA1A335M8R
	4.7	A	511-1460-1-ND	24	2.05	1793	511-1460-2-ND	2,000	84.94/M	TCA1A475M8R
4.7	P	511-1461-1-ND	28	2.43	21.24	511-1461-2-ND	3,000	100.92/M	TCPIA475M8R	
16	4.7	M	511-1496-1-ND	44	3.79	33.11	511-1496-2-ND	4,000	156.82/M	TCM1A475M8R
	6.8	A	511-1462-1-ND	24	2.05	1793	511-1462-2-ND	2,000	84.94/M	TCA1A685M8R
	10	A	511-1463-1-ND	24	2.05	1793	511-1463-2-ND	2,000	84.94/M	TCA1A106M8R
	15	A	511-1464-1-ND	24	2.05	1793	511-1464-2-ND	2,000	84.94/M	TCA1A156M8R
	22	A	511-1465-1-ND	24	2.05	1793	511-1465-2-ND	2,000	84.94/M	TCA1A226M8R
	1	A	511-1466-1-ND	24	2.05	1793	511-1466-2-ND	2,000	84.94/M	TCA1C105M8R
	1	P	511-1467-1-ND	24	2.05	1793	511-1467-2-ND	3,000	84.95/M	TCPIA105M8R
	1	M	511-1497-1-ND	36	3.16	27.59	511-1497-2-ND	4,000	130.68/M	TCM1C105M8R
	1.5	A	511-1468-1-ND	24	2.05	1793	511-1468-2-ND	2,000	84.94/M	TCA1C155M8R
	2.2	A	511-1469-1-ND	24	2.05	1793	511-1469-2-ND	2,000	84.94/M	TCA1C225M8R
	3.3	A	511-1470-1-ND	24	2.05	1793	511-1470-2-ND	2,000	84.94/M	TCA1C335M8R
	4.7	A	511-1471-1-ND	24	2.05	1793	511-1471-2-ND	2,000	84.94/M	TCA1C475M8R
6.8	A	511-1472-1-ND	24	2.05	1793	511-1472-2-ND	2,000	84.94/M	TCA1C685M8R	
10	A	511-1473-1-ND	24	2.05	1793	511-1473-2-ND	2,000	84.94/M	TCA1C106M8R	
20	1	A	511-1474-1-ND	24	2.05	1793	511-1474-2-ND	2,000	84.94/M	TCA1D105M8R
TCO Series — Conductive Polymer Type										
4	33	A	511-1596-1-ND	.82	7.14	62.38	511-1596-2-ND	2,000	295.48/M	TCA0G336M8R
10	10	A	511-1597-1-ND	.73	6.30	55.04	511-1597-2-ND	2,000	260.64/M	TCA0J106M8R
6.3	22	A	511-1598-1-ND	.82	7.14	62.38	511-1598-2-ND	2,000	295.48/M	TCA0J226M8R
47	47	B	511-1600-1-ND	1.02	8.82	77.05	511-1600-2-ND	2,000	365.18/M	TCA0J476M8R
10	10	A	511-1599-1-ND	.73	6.30	55.04	511-1599-2-ND	2,000	260.64/M	TCA0A1156M8R
33	33	B	511-1601-1-ND	1.02	8.82	77.05	511-1601-2-ND	2,000	365.18/M	TCA0A336M8R

TCFG Series Fused Tantalum Electrolytic Capacitors



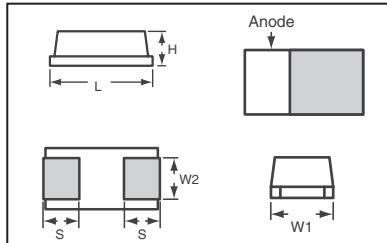
Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8



Features: • Safety design by built-in open function • Wide capacitance range • Screening by thermal shock • Specifications: • Capacitance Tolerance: 20% • Operating Temperature Range: -55°C - 125°C (derated voltage from 85°C - 125°C) • DC Leakage Current: 0.5µA or 0.01CV, whichever is greater

W.V. (DC)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
				1	10	100		Qty.	Pricing	
4	22	P	511-1487-1-ND	44	3.79	33.11	511-1487-2-ND	2,000	156.82/M	TCFGP0G226M8R
	47	A	511-1476-1-ND	24	2.05	1793	511-1476-2-ND	2,000	84.94/M	TCFGA0476M8R
	10	P	511-1488-1-ND	26	2.24	19.59	511-1488-2-ND	2,000	92.93/M	TCFGP0J106M8R
	15	P	511-1489-1-ND	44	3.79	33.11	511-1489-2-ND	4,000	156.82/M	TCFGP0J156M8R
6.3	22	A	511-1477-1-ND	26	2.24	19.59	511-1477-2-ND	2,000	92.93/M	TCFGA0J226M8R
	33	A	511-1478-1-ND	36	3.16	27.59	511-1478-2-ND	2,000	130.68/M	TCFGA0J336M8R
	2.2	P	511-1490-1-ND	31	2.69	23.45	511-1490-2-ND	2,000	111.08/M	TCFGP1A225M8R
	4.7	P	511-1491-1-ND	26	2.24	19.59	511-1491-2-ND	2,000	111.08/M	TCFGP1A475M8R
10	10	A	511-1479-1-ND	26	2.24	19.59	511-1479-2-ND	2,000	92.93/M	TCFGA1A106M8R
	15	A	511-1480-1-ND	.32	2.74	24.00	511-1480-2-ND	2,000	113.98/M	TCFGA1A156M8R
	22	A	511-1481-1-ND	.62	5.37	46.90	511-1481-2-ND	2,000	222.16/M	TCFGA1A226M8R
	1	A	511-1482-1-ND	26	2.24	19.59	511-1482-2-ND	2,000	92.93/M	TCFGA1C105M8R
16	1	P	511-1492-1-ND	29	2.53	22.07	511-1492-2-ND	2,000	104.55/M	TCFGP1C105M8R
	3.3	A	511-1484-1-ND	26	2.24	19.59	511-1484-2-ND	2,000	92.93/M	TCFGA1C335M8R
	4.7	A	511-1485-1-ND	26	2.24	19.59	511-1485-2-ND	2,000	92.93/M	TCFGA1C475M8R
	10	A	511-1483-1-ND	40	3.48	30.35	511-1483-2-ND	2,000	143.75/M	TCFGA1C106M8R
20	1	A	511-1486-1-ND	.26	2.24	19.59	511-1486-2-ND	2,000	92.93/M	TCFGA1D105M8R

TCT Series Tantalum Electrolytic Capacitors With Bottom Surface Electrodes



Features: The compact terminal construction allows for a larger tantalum element, therefore allowing significantly higher capacitances than conventional units of the same size. **Specifications:** • Capacitance Tolerance: 20% • Operating Temperature Range: -55°C - 125°C (derated voltage from 85°C - 125°C)

Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.85	1.2 (Max.)	0.5
3216	AL	3.2	1.6	1.2	1.1	