



CZECH REPUBLIC S.R.O.

A KYOCERA GROUP COMPANY

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Quality Engineer
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TAJ, TPS Series

Contact: RohsCompliance-tantalum@eur.avx.com		Case size		A		B		C		D		E		V		R		S		T		W		X		Y		P		Q	
MATERIALS	CONSTITUENT	PURPOSE	CAS	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%
capacitor (mg)				31.4	100	71.9	100	194.3	100	372.5	100	531.4	100	680.660	100	10	100	18.67	100	35.02	100	96.62	100	158.3	100	236.8	100	15.13	100	9	100
ANODE BODY	anode body			12.863	40.97%	35.512	49.39%	109.738	56.48%	224.724	60.33%	300.865	56.62%	359.177	52.77%	4.338	43.38%	5.314	28.46%	11.880	33.92%	43.959	45.50%	77.198	48.77%	112.528	47.52%	5.610	37.08%	2.962	32.91%
	tantalum + tantalum(V) oxide	Anode	7440-25-7 1314-61-0	10.100	32.17%	29.000	40.33%	89.700	46.17%	185.600	49.83%	249.500	46.95%	297.600	43.72%	3.200	32.00%	3.700	19.82%	9.100	25.99%	34.800	36.02%	63.200	39.92%	92.800	39.19%	4.300	28.42%	2.000	22.22%
	tantalum wire	Internal connection	7440-25-7	0.800	2.55%	0.890	1.24%	2.650	1.36%	3.170	0.85%	3.040	0.57%	3.940	0.58%	0.510	5.10%	0.890	4.77%	1.010	2.88%	2.400	2.48%	1.740	1.10%	1.740	0.73%	0.470	3.11%	0.570	6.33%
	manganese(II) oxide	Cathode	1313-13-9	1.909	6.08%	5.481	7.62%	16.953	8.73%	35.078	9.42%	47.156	8.87%	56.246	8.26%	0.605	6.05%	0.699	3.75%	1.720	4.91%	6.577	6.81%	11.945	7.55%	17.539	7.41%	0.813	5.37%	0.378	4.20%
	graphite	Barrier	7782-42-5	0.044	0.14%	0.128	0.18%	0.395	0.20%	0.817	0.22%	1.098	0.21%	1.309	0.19%	0.014	0.14%	0.016	0.09%	0.040	0.11%	0.153	0.16%	0.278	0.18%	0.408	0.17%	0.019	0.13%	0.009	0.10%
	polymethylhydrogen siloxane	Moisture barrier	63148-62-9	0.002	0.01%	0.006	0.01%	0.018	0.01%	0.037	0.01%	0.050	0.01%	0.060	0.01%	0.001	0.01%	0.001	0.00%	0.002	0.01%	0.007	0.01%	0.013	0.01%	0.019	0.01%	0.001	0.01%	0.000	0.00%
	green teflon	Wire protection	9002-84-0	0.008	0.03%	0.008	0.01%	0.022	0.01%	0.022	0.01%	0.022	0.00%	0.022	0.00%	0.008	0.08%	0.008	0.04%	0.008	0.02%	0.022	0.02%	0.022	0.01%	0.022	0.01%	0.008	0.05%	0.004	0.05%
SILVER LAYER	silver layer	Internal connection		0.600	1.91%	1.200	1.67%	2.500	1.29%	5.000	1.34%	7.000	1.32%	8.500	1.25%	0.500	5.00%	0.550	2.95%	1.000	2.86%	2.000	2.07%	3.500	2.21%	4.000	1.69%	0.500	3.30%	0.900	10.00%
	silver particles		7440-22-4	0.569	1.81%	1.138	1.58%	2.370	1.22%	4.740	1.27%	6.636	1.25%	8.058	1.18%	0.474	4.74%	0.521	2.79%	0.948	2.71%	1.896	1.96%	3.318	2.10%	3.792	1.60%	0.474	3.13%	0.853	9.48%
	bisphenol A-(epichlorohydrine) resin		25068-38-6	0.031	0.10%	0.062	0.09%	0.130	0.07%	0.260	0.07%	0.364	0.07%	0.442	0.06%	0.026	0.26%	0.029	0.15%	0.052	0.15%	0.104	0.11%	0.182	0.11%	0.208	0.09%	0.026	0.17%	0.047	0.52%
SILVER PASTE	silver paste	Internal connection		0.105	0.33%	0.188	0.26%	0.730	0.38%	1.490	0.40%	0.718	0.14%	1.104	0.16%	0.073	0.73%	0.105	0.56%	0.070	0.20%	0.271	0.28%	0.380	0.24%	0.421	0.18%	0.082	0.54%	0.098	1.09%
	silver particles		7440-22-4	0.090	0.29%	0.162	0.23%	0.629	0.32%	1.284	0.34%	0.619	0.12%	0.951	0.14%	0.063	0.63%	0.090	0.48%	0.060	0.17%	0.233	0.24%	0.327	0.21%	0.363	0.15%	0.071	0.47%	0.084	0.94%
	epoxy resin, Bis-F		68610-73-1	0.015	0.05%	0.026	0.04%	0.101	0.05%	0.206	0.06%	0.099	0.02%	0.153	0.02%	0.010	0.10%	0.015	0.08%	0.010	0.03%	0.038	0.04%	0.053	0.03%	0.058	0.02%	0.011	0.08%	0.014	0.15%
MOULDING MASS	moulding mass	Case		12.892	41.06%	24.430	33.98%	61.412	31.61%	111.156	29.84%	186.470	35.09%	266.279	39.12%	3.401	34.01%	8.601	46.07%	14.302	40.84%	37.746	39.07%	61.875	39.09%	104.452	44.11%	5.838	38.58%	2.481	27.57%
	Epoxy resin		129915-35-1	3.867	12.32%	7.329	10.19%	18.424	9.48%	33.347	8.95%	55.941	10.53%	79.884	11.74%	1.020	10.20%	2.580	13.82%	4.291	12.25%	11.324	11.72%	18.563	11.73%	31.336	13.23%	1.751	11.57%	0.744	8.27%
	Silica fused		60676-86-0	9.024	28.74%	17.101	23.78%	42.988	22.12%	77.809	20.89%	130.529	24.56%	186.395	27.38%	2.381	23.81%	6.020	32.25%	10.011	28.59%	26.422	27.35%	43.313	27.36%	73.116	30.88%	4.086	27.01%	1.737	19.30%
TERMINATION- NILO	Base material	Termination		4.700	14.97%	10.050	13.98%	19.240	9.90%	29.110	7.81%							1.558	15.58%	3.899	20.88%	7.388	21.10%					2.948	19.48%	2.435	27.06%
	nickel		7440-02-0	1.974	6.29%	4.221	5.87%	8.081	4.16%	12.226	3.28%							0.654	6.54%	1.638	8.77%	3.103	8.86%					1.238	8.18%	1.023	11.36%
	iron		7439-89-6	2.726	8.68%	5.829	8.11%	11.159	5.74%	16.884	4.53%							0.904	9.04%	2.261	12.11%	4.285	12.24%					1.710	11.30%	1.412	15.69%
	Plating	Termination finish		0.240	0.76%	0.520	0.72%	0.680	0.35%	1.020	0.27%							0.130	1.30%	0.201	1.08%	0.380	1.09%					0.152	1.00%	0.124	1.38%
	tin		7440-31-5	0.230	0.73%	0.498	0.69%	0.652	0.34%	0.977	0.26%							0.125	1.25%	0.193	1.03%	0.365	1.04%					0.146	0.96%	0.119	1.32%
	nickel	Barrier	7440-02-0	0.005	0.02%	0.011	0.02%	0.014	0.01%	0.021	0.01%							0.003	0.03%	0.004	0.02%	0.008	0.02%					0.003	0.02%	0.003	0.03%
	silver	Barrier	7440-22-4	0.005	0.02%	0.011	0.02%	0.014	0.01%	0.021	0.01%							0.003	0.03%	0.004	0.02%	0.008	0.02%					0.003	0.02%	0.003	0.03%
TERMINATION- CU	Base material	Termination						19.240	9.90%	29.110	7.81%	33.889	6.38%	42.520	6.29%							11.789	12.20%	14.335	9.06%	14.358	6.06%				
	copper		7440-50-8					18.749	9.648%	28.268	7.611%	33.025	6.169%	41.436	6.091%							11.762	12.172%	14.302	9.039%	14.325	6.046%				
	tin		7440-31-5					0.000	0.000%	0.000	0.000%	0.000	0.000%	0.000	0.000%							0.007	0.007%	0.009	0.005%	0.009	0.004%				
	silver particles		7440-22-4					0.000	0.000%	0.000	0.000%	0.000	0.000%	0.000	0.000%							0.001	0.001%	0.001	0.001%	0.001	0.001%				
	chromium		7440-47-3					0.000	0.000%	0.000	0.000%	0.000	0.000%	0.000	0.000%							0.006	0.006%	0.007	0.005%	0.007	0.003%				
	Zinc		7440-66-6					0.023	0.012%	0.135	0.009%	0.041	0.008%	0.051	0.008%							0.000	0.000%	0.000	0.000%	0.000	0.000%				
	Phosphorus		7723-14-0					0.006	0.003%	0.009	0.002%	0.010	0.004%	0.013	0.002%							0.000	0.000%	0.000	0.000%	0.000	0.000%				
	Silicon		7440-21-3					0.000	0.000%	0.000	0.000%	0.000	0.000%	0.000	0.000%							0.004	0.004%	0.004	0.003%	0.004	0.002%				
	Iron		7439-89-6					0.462	0.238%	0.699	0.187%	0.813	0.199%	1.020	0.150%							0.009	0.010%	0.012	0.007%	0.012	0.005%				
	Plating	Termination finish						0.680	0.35%	1.020	0.27%	2.458	0.46%	3.080	0.45%							0.855	0.88%	1.012	0.64%	1.041	0.44%				
	tin		7440-31-5					0.652	0.34%	0.977	0.26%	2.356	0.44%	2.952	0.43%							0.819	0.85%	0.970	0.61%	0.998	0.42%				
	nickel	Barrier	7440-02-0					0.014	0.01%	0.021	0.01%	0.051	0.01%	0.064	0.01%							0.018	0.02%	0.021	0.01%	0.022	0.01%				
	silver	Barrier	7440-22-4					0.014	0.01%	0.021	0.01%	0.051	0.01%	0.064	0.01%							0.018	0.02%	0.021	0.01%	0.022	0.01%				