

# TAZ series

## Tin Termination

### Black Encapsulant

MATERIALS	CONSTITUENT	Case size		A		B		C		D		E		F		G		H		X		R	
		PURPOSE	CAS	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%	mg	%
	capacitor (mg)			17.168		26.769		38.081		67.413		65.137		126.450		208.062		338.760		458.754	458.754	13.340	13.340
ANODE BODY	Anode body			4.686	27.29%	10.233	38.23%	14.556	38.22%	31.398	46.58%	28.343	43.51%	60.226	47.63%	115.214	55.37%	214.741	63.39%	248.164	0.541	3.641	0.273
	tantalum	Anode	7440-25-7	3.640	21.20%	7.150	26.71%	10.171	26.71%	18.947	28.11%	18.456	28.33%	40.238	31.82%	79.306	38.12%	146.041	43.11%	175.361	38.23%	2.828	21.20%
	tantalum pentoxide	Anode	1314-61-0	0.414	2.41%	1.289	4.81%	1.833	4.81%	5.403	8.01%	4.262	6.54%	6.183	4.89%	11.646	5.60%	22.452	6.63%	31.592	6.89%	0.322	2.41%
	manganese(II) oxide	Cathode	1313-13-9	0.628	3.66%	1.787	6.68%	2.543	6.68%	7.022	10.42%	5.599	8.60%	13.743	10.87%	24.174	11.62%	46.087	13.60%	41.058	8.95%	0.488	3.66%
	graphite	Barrier	7782-42-5	0.004	0.02%	0.007	0.02%	0.009	0.02%	0.026	0.04%	0.026	0.04%	0.061	0.05%	0.088	0.04%	0.161	0.05%	0.153	0.03%	0.003	0.02%
SILVER LAYER	Silver layer	Internal connection		0.124	0.72%	0.447	1.67%	0.637	1.67%	1.292	1.92%	1.437	2.21%	2.764	2.19%	3.626	1.74%	5.999	1.77%	7.557	0.016	0.096	0.007
	silver particles		7440-22-4	0.106	0.62%	0.384	1.43%	0.546	1.43%	1.108	1.64%	1.231	1.89%	2.369	1.87%	3.108	1.49%	5.141	1.52%	6.476	1.41%	0.083	0.62%
	epoxy			0.018	0.10%	0.064	0.24%	0.091	0.24%	0.185	0.27%	0.205	0.32%	0.395	0.31%	0.519	0.25%	0.858	0.25%	1.081	0.24%	0.014	0.10%
SILVER PASTE	Silver paste	Internal connection		0.035	0.20%	0.380	1.42%	0.541	1.42%	0.489	0.72%	0.952	1.46%	1.258	0.99%	1.399	0.67%	1.967	0.58%	2.857	0.006	0.027	0.002
	silver particles		7440-22-4	0.029	0.17%	0.316	1.18%	0.450	1.18%	0.407	0.60%	0.793	1.22%	1.048	0.83%	1.165	0.56%	1.639	0.48%	2.381	0.52%	0.023	0.17%
	epoxy			0.006	0.03%	0.063	0.24%	0.091	0.24%	0.082	0.12%	0.159	0.24%	0.210	0.17%	0.233	0.11%	0.328	0.10%	0.477	0.10%	0.005	0.03%
ENCAPSULANT	Encapsulant	Case		6.583	38.34%	8.609	32.16%	12.247	32.16%	21.234	31.50%	21.835	33.52%	38.902	30.76%	62.773	30.17%	79.643	23.51%	124.161	0.271	5.115	0.383
	fused silica		60676-86-0	4.904	28.57%	6.414	23.96%	9.124	23.96%	15.819	23.47%	16.267	24.97%	28.982	22.92%	46.766	22.48%	59.334	17.52%	92.500	20.16%	3.811	28.57%
	o-Cresol, Formaldehyde, epichlorohydrin polymer		29690-82-2	0.974	5.67%	1.274	4.76%	1.813	4.76%	3.143	4.66%	3.232	4.96%	5.757	4.55%	9.290	4.47%	11.787	3.48%	18.376	4.01%	0.757	5.67%
	Phenolic Resin			0.451	2.63%	0.590	2.20%	0.839	2.20%	1.455	2.16%	1.496	2.30%	2.665	2.11%	4.300	2.07%	5.456	1.61%	8.505	1.85%	0.350	2.63%
	Brominated bisphenol a glycidyl ether		40039-93-8	0.193	1.12%	0.252	0.94%	0.359	0.94%	0.622	0.92%	0.640	0.98%	1.140	0.90%	1.839	0.88%	2.334	0.69%	3.638	0.79%	0.150	1.12%
	Antimony Trioxide		1309-64-4	0.036	0.21%	0.047	0.18%	0.067	0.18%	0.117	0.17%	0.120	0.18%	0.214	0.17%	0.345	0.17%	0.438	0.13%	0.683	0.15%	0.028	0.21%
	Carbon Black		1333-86-4	0.024	0.14%	0.032	0.12%	0.045	0.12%	0.079	0.12%	0.081	0.12%	0.144	0.11%	0.232	0.11%	0.295	0.09%	0.459	0.10%	0.019	0.14%
TERMINATION-CU	Base material	Termination		5.522	32.16%	6.830	25.52%	9.716	25.51%	12.506	18.55%	12.092	18.56%	22.415	17.73%	24.098	11.58%	35.026	10.34%	73.126	0.159	4.291	0.322
	copper		7440-50-8	5.28654	30.79%	6.5391	24.43%	9.30217	24.43%	11.973	17.76%	11.577	17.77%	21.4593	16.97%	23.0711	11.09%	33.5336	9.90%	70.00935	15.26%	4.108	30.79%
	iron		7439-89-6	0.07462	0.43%	0.0923	0.34%	0.1313	0.34%	0.169	0.25%	0.16341	0.25%	0.3029	0.24%	0.32565	0.16%	0.47333	0.14%	0.988189	0.22%	0.058	0.43%
	nickel		7440-02-0	0.16072	0.94%	0.1988	0.74%	0.2828	0.74%	0.364	0.54%	0.35196	0.54%	0.6524	0.52%	0.7014	0.34%	1.01948	0.30%	2.128406	0.46%	0.125	0.94%
	Plating	Termination finish		0.218	1.27%	0.270	1.01%	0.384	1.01%	0.494	0.73%	0.478	0.73%	0.885	0.70%	0.952	0.46%	1.384	0.41%	2.889	0.006	0.169	0.013
	tin		7440-31-5	0.21812	1.27%	0.2698	1.01%	0.3838	1.01%	0.494	0.73%	0.47766	0.73%	0.8854	0.70%	0.9519	0.46%	1.38358	0.41%	2.888551	0.63%	0.169	1.27%