

Tantalum - continued

T520D Series-Tantalum Polymer



- Surface Mount Replacement for Aluminium Capacitors
- High Frequency Cap Retention
- No-Ignition Failure Mode
- 100% Surge Current Tested
- 100% Accelerated Steady State Aging
- Self-Healing Mechanism
- Volumetrically Efficient

Characteristics	Dimensions (mm)
Case size	L = 3.5 W = 2.8 H = 3.5
B	L = 7.3 W = 4.3 H = 7.3
D, X	
Tolerance	±10%
Operating temperature	-55 to +105°C

406051

Capacitance	Volts	Resistance	Case	Order Code	1+	25+	100+	250+
(μF)		(ESR)	size					
22μF	6V	90R	A	<a href="#">SMD 110-8329</a>	52.00	44.00	37.00	34.00
33μF	6V	70R	A	<a href="#">SMD 110-8330</a>	52.00	44.00	37.00	34.00
33μF	16V	60R	W	<a href="#">SMD 110-8337</a>	158.00	135.00	118.00	105.00
47μF	4V	70R	A	<a href="#">SMD 110-8331</a>	52.00	44.00	37.00	34.00
47μF	6V	40R	B	<a href="#">SMD 922-9566</a>	61.00	51.00	41.00	31.00
47μF	16V	35R	D	<a href="#">SMD 922-9639</a>	166.00	140.00	113.00	85.00
47μF	16V	45R	W	<a href="#">SMD 110-8338</a>	158.00	135.00	118.00	105.00
68μF	2.5V	70R	A	<a href="#">SMD 110-8332</a>	52.00	44.00	37.00	34.00
100μF	6V	40R	W	<a href="#">SMD 110-8336</a>	140.00	119.00	104.00	93.00
100μF	10V	18R	D	<a href="#">SMD 922-9582</a>	188.00	158.00	128.00	96.00
100μF	10V	40R	B	<a href="#">SMD 922-9574</a>	62.00	53.00	42.00	32.00
150μF	10V	25R	D	<a href="#">SMD 922-9590</a>	200.00	168.00	136.00	102.00
150μF	6V	45R	B	<a href="#">SMD 110-8334</a>	52.00	46.00	38.00	35.00
220μF	4V	45R	B	<a href="#">SMD 110-8333</a>	52.00	46.00	38.00	35.00
220μF	10V	18R	D	<a href="#">SMD 922-9604</a>	226.00	190.00	154.00	116.00
330μF	6V	15R	D	<a href="#">SMD 922-9612</a>	224.00	188.00	152.00	114.00
330μF	10V	25R	X	<a href="#">SMD 922-9647</a>	464.00	392.00	316.00	238.00
470μF	4V	12R	D	<a href="#">SMD 922-9620</a>	236.00	199.00	160.00	120.00

Niobium Oxide Capacitor

OxiCap™ NOJ Series



- Reduced Voltage Derating
- Failed OxiCap™ will not burn up to category voltage

A new solid electrolyte capacitor OxiCap™ has been developed by AVX in standard EIA case sizes as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market. The OxiCap™ non-burn1 technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors. Nb2O5 dielectric in combination to self-healing MnO2 cathode is a basis for a good reliability level 0.5%/1000 hrs. within a temperature range up to 105°C and rated voltage <6V (rail voltage <5V). Electrical parameters are similar to general tantalum specifications. NbO and MnO2 are widely available materials. The laser coded orange molded body gives total traceability.

Capacitance	Dimensions	Case	ESR	Mftrs. List No.	Order Code
(μF)	L W H	Size	(Ω)		
<b>1.8 Volt d.c.</b>					
330	7.3 4.3 2	Y	0.3	NOJY337M001RWJ	113-5188
<b>2.5 Volt d.c.</b>					
10	2.05 1.35 1.5	P	4.5	NOJP106M002RWJ	113-5127
22	3.5 2.8 1.2	T	1.9	NOJT226M002RWJ	113-5189
33	3.2 1.6 1.6	A	1.7	NOJA336M002RWJ	113-5128
470	7.3 4.3 4.1	E	0.3	NOJE477M002RWJ	113-5129
1000	7.3 6.1 3.45	V	0.3	NOJV108M002RWJ	113-5130
<b>4 Volt d.c.</b>					
6.8	2.05 1.35 1.5	P	5.3	NOJP685M004RWJ	113-5131
6.8	3.2 1.6 1.2	S	2.6	NOJS685M004RWJ	113-5133
15	3.5 2.8 1.2	T	0.3	NOJT156M004RWJ	113-5134
22	3.2 1.6 1.6	A	1.9	NOJA226M004RWJ	113-5135
22	3.5 2.8 1.9	B	1.9	NOJB226M004RWJ	113-5136
47	3.5 2.8 1.9	B	1.6	NOJB476M004RWJ	113-5085
47	6 3.2 2.6	C	0.5	NOJC476M004RWJ	113-5137
100	6.0 3.2 2.6	C	0.4	NOJC107M004RWJ	756-5143
150	6 3.2 2.6	C	0.4	NOJC157M004RWJ	113-5138
220	7.3 4.3 2.9	D	0.4	NOJD227M004RWJ	113-5139
330	7.3 4.3 2.9	D	0.3	NOJD337M004RWJ	113-5140
680	7.3 6.1 3.45	V	0.3	NOJV687M004RWJ	113-5141

6.3 Volt d.c.	Order Code	Price Each
4.7	<a href="#">SMD 113-5188</a>	84.00
4.7	<a href="#">SMD 113-5127</a>	15.00
4.7	<a href="#">SMD 113-5189</a>	22.00
4.7	<a href="#">SMD 113-5128</a>	12.00
4.7	<a href="#">SMD 113-5129</a>	199.00
4.7	<a href="#">SMD 113-5130</a>	245.00
<b>10 Volt d.c.</b>		
15	<a href="#">SMD 113-5131</a>	15.00
	<a href="#">SMD 113-5133</a>	18.00
	<a href="#">SMD 113-5134</a>	22.00
	<a href="#">SMD 113-5135</a>	12.00
	<a href="#">SMD 113-5136</a>	12.00
	<a href="#">SMD 113-5085</a>	16.00
	<a href="#">SMD 113-5137</a>	18.00
	<a href="#">SMD 756-5143</a>	21.00
	<a href="#">SMD 113-5138</a>	39.00
	<a href="#">SMD 113-5139</a>	54.00
	<a href="#">SMD 113-5140</a>	87.00
	<a href="#">SMD 113-5141</a>	245.00

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Order Multiple=5	Capacitance (μF)	Order Code	5+	50+	100+	500+	+
<b>1.8 Volt d.c.</b>	330	<a href="#">SMD 113-5188</a>	84.00	74.00	64.00	54.00	--
<b>2.5 Volt d.c.</b>	10	<a href="#">SMD 113-5127</a>	15.00	14.00	12.00	10.00	--
	22	<a href="#">SMD 113-5189</a>	22.00	19.00	17.00	14.00	--
	33	<a href="#">SMD 113-5128</a>	12.00	10.00	9.00	8.00	--
	470	<a href="#">SMD 113-5129</a>	199.00	177.00	153.00	127.00	--
	1000	<a href="#">SMD 113-5130</a>	245.00	218.00	189.00	157.00	--
<b>4 Volt d.c.</b>	6.8	<a href="#">SMD 113-5131</a>	15.00	14.00	12.00	10.00	--
	6.8	<a href="#">SMD 113-5133</a>	18.00	16.00	14.00	12.00	--
	15	<a href="#">SMD 113-5134</a>	22.00	19.00	17.00	14.00	--
	22	<a href="#">SMD 113-5135</a>	12.00	10.00	9.00	8.00	--
	22	<a href="#">SMD 113-5136</a>	12.00	11.00	10.00	8.00	--
	47	<a href="#">SMD 113-5085</a>	16.00	14.00	12.00	10.00	--
	47	<a href="#">SMD 113-5137</a>	18.00	16.00	14.00	12.00	--
	100	<a href="#">SMD 756-5143</a>	21.00	18.00	16.00	12.00	--
	150	<a href="#">SMD 113-5138</a>	39.00	35.00	30.00	25.00	--
	220	<a href="#">SMD 113-5139</a>	54.00	48.00	42.00	35.00	--
	330	<a href="#">SMD 113-5140</a>	87.00	77.00	67.00	56.00	--
	680	<a href="#">SMD 113-5141</a>	245.00	218.00	189.00	157.00	--
<b>6.3 Volt d.c.</b>	4.7	<a href="#">SMD 113-5086</a>	9.00	8.00	7.00	6.00	--
	4.7	<a href="#">SMD 113-5142</a>	18.00	16.00	14.00	12.00	--
	47	<a href="#">SMD 113-5146</a>	27.00	24.00	21.00	18.00	--
	68	<a href="#">SMD 113-5147</a>	39.00	35.00	30.00	25.00	--
	10	<a href="#">SMD 756-5127</a>	6.00	5.00	4.00	4.00	--
	15	<a href="#">SMD 113-5143</a>	12.00	11.00	10.00	8.00	--
	22	<a href="#">SMD 756-5135</a>	9.00	8.00	7.00	5.00	--
	33	<a href="#">SMD 113-5087</a>	17.00	15.00	13.00	11.00	--
	33	<a href="#">SMD 113-5145</a>	18.00	16.00	14.00	12.00	--
	100	<a href="#">SMD 113-5148</a>	71.00	64.00	55.00	46.00	--
	100	<a href="#">SMD 756-5151</a>	30.00	26.00	22.00	17.00	--
	150	<a href="#">SMD 113-5149</a>	54.00	48.00	42.00	35.00	--
	220	<a href="#">SMD 756-5160</a>	70.00	59.00	50.00	39.00	--
	330	<a href="#">SMD 756-5178</a>	76.00	65.00	55.00	42.00	--
<b>10 Volt d.c.</b>	15	<a href="#">SMD 113-5150</a>	15.00	13.00	12.00	10.00	--

592 & 595 Series - Conformally Coated



- High CV for case size
- Low leakage current
- 592 low profile, low ESR



Operating Temperature Tolerance -55°C to +125°C ±10%

μF	Dimensions	Case Size	Mftrs. List No.	Order Code
	L W H			
<b>6.3 Volt d.c.</b>				
15	3.5 1.8 1.4	A	595D156X96R3A2T	116-6792
22	3.8 2.7 1.85	B	595D226X96R3B2T	116-6795
100	6.9 3.2 2.5	C	595D107X96R3C2T	116-6796
100	6.9 8 3.5	R	592D107X96R3R2T	116-6798
<b>10 Volt d.c.</b>				
2.2	2 8 1.2	T	595D225X9010T2T	116-6800
10	3.5 1.8 1.4	A	595D106X9010A2T	116-6801
33	7.2 4.3 1.5	D	592D336X9010D2T	116-6802
68	6.9 3.2 2.5	C	595D686X9010C2T	116-6804
<b>16 Volt d.c.</b>				
4.7	3.5 1.8 1.4	A	595D475X9016A2T	116-6805
10	3.8 2.7 1.8	B	595D106X9016B2T	116-6806
10	6.8 3.2 1.5	C	592D106X9016C2T	116-6807
33	6.9 3.2 2.5	C	595D336X9016C2T	116-6808
100	7.2 4.3 2.8	D	595D107X9016D2T	116-6809
150	6.9 8 3.5	R	595D157X9016R2T	116-6810
<b>20 Volt d.c.</b>				
1	2 1.2 1.2	T	595D105X9020T2T	116-6811
2.2	3.5 1.4 1.2	A	595D225X9020A2T	116-6812
22	6.9 3.2 2.5	C	595D226X9020C2T	116-6813