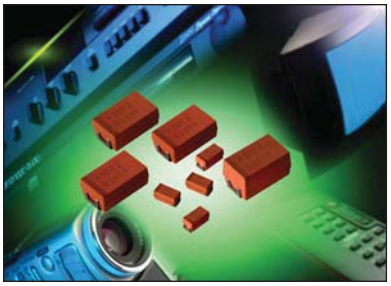
OxiCap® NOJ Series

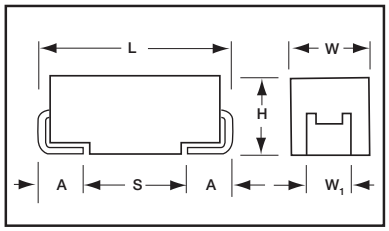
Niobium Oxide Capacitor



- Non-burn safe technology
- Reliability level: 0.5%/1000 hrs.
- 6 case sizes available
- Environmentally friendly
- IBM global approval received in 2004
- Electra Award received in 2005
- CV range: 4.7-1000µF / 1.8-10V



Elektra Award 2005



For part marking see page 130

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) –0.10 (0.004)	H+0.20 (0.008) –0.10 (0.004)	W1 ±0.20 (0.008)	A+0.30 (0.012) –0.20 (0.008)	S Min.
A	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
B	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (0.075)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
C	2312	6032-28	6.00 (0.236)	3.20 (0.126)	2.60 (0.102)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	2917	7343-31	7.30 (0.287)	4.30 (0.169)	2.90 (0.114)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
E	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)

W_1 dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

NOJ	D	107	M	006	R	WJ	–
Type	**Case Size** See table above	**Capacitance Code** 1st two digits represent significant figures, 3rd digit represents multiplier in pF	**Tolerance** M=±20%	**Rated DC Voltage** 001 = 1.8Vdc 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc	**Packaging** R = Pure Tin 7" Reel S = Pure Tin 13" Reel	**Specification Suffix** WJ = Standard Suffix	**Additional characters may be added for special requirements** V = Dry pack Option (selected codes only) with exception of D, E, V cases

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C is not stated					
Capacitance Range:		4.7 µF to 1000 µF					
Capacitance Tolerance:		±20%					
Leakage Current DCL:		0.02CV					
Rated Voltage DC (V_R)	≤ +85°C:	1.8	2.5	4	6.3	10	
Category Voltage (V_C)	≤ +105°C:	1.2	1.7	2.7	4	7	
Surge Voltage (V_S)	≤ +85°C:	2.3	3.3	5.2	8	13	
Surge Voltage (V_S)	≤ +105°C:	1.6	2.2	3.4	5	8	
Temperature Range:		-55°C to +105°C					
Reliability:		0.5% per 1000 hours at 85°C, V_R, 0.1Ω/V series impedance, 60% confidence level					
		Meets requirements of AEC-Q200					

OxiCap® NOJ Series

Niobium Oxide Capacitor

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V_R) to 85°C / 0.66 DC to 105°C				
µF	Code	1.8V (x)	2.5V (e)	4V (G)	6.3V (J)	10V (A)
4.7	475				A	A
6.8	685				A	A
10	106				A	A/B
15	156			A	A/B	A/B
22	226		A	A/B	A/B	B/C/B(700)
33	336		A/B	A/B	B/C/B(700)	C
47	476	A	A/B	A/B/C	B/C	C
68	686	B	B/C	B/C	B/C	C
100	107	B/C	B/C	B/C/B(250)	B/C/D/B(400)	D/D(150)
150	157	C	C	C/D	C/D	
220	227	C	C	C/D	C/D/E	V
330	337	C	C/D	D	D/E	
470	477		D/E	D/E	E/V	
680	687		E	E/V		
1000	108		V	V		

Released codes

Engineering samples - please contact manufacturer

*Codes under development - subject to change

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT



NON-BURN NON-SMOKE

OxiCap® NOJ Series

Niobium Oxide Capacitor

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL	100kHz RMS Current (A)			100kHz RMS Voltage (V)		
								25ºC	85ºC	105ºC	25ºC	85ºC	105ºC
1.8 Volt @ 85°C (1.2 Volt @ 105°C)													
NOJA476M001#WJ	A	47	1.8	1.7	8	1.6	1	0.237	0.213	0.095	0.379	0.342	0.152
NOJB476M001#WJ	B	47	1.8	1.7	6	1.6	1	0.252	0.227	0.101	0.404	0.364	0.162
NOJB686M001#WJ	B	68	1.8	2.5	6	1.5	1	0.261	0.235	0.104	0.391	0.352	0.156
NOJB107M001#WJ	B	100	1.8	3.6	6	1.4	1	0.270	0.243	0.108	0.378	0.340	0.151
NOJC107M001#WJ	C	100	1.8	3.6	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M001#WJ	C	150	1.8	5.4	8	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC227M001#WJ	C	220	1.8	8.0	8	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC337M001#WJ	C	330	1.8	11.9	8	0.3	1	0.663	0.597	0.265	0.199	0.179	0.080
2.5 Volt @ 85°C (1.7 Volt @ 105°C)													
NOJA226M002#WJ	A	22	2.5	1.1	6	1.9	1	0.218	0.196	0.087	0.414	0.372	0.165
NOJA336M002#WJ	A	33	2.5	1.7	6	1.7	1	0.230	0.207	0.092	0.391	0.352	0.156
NOJB336M002#WJ	B	33	2.5	1.7	6	1.7	1	0.245	0.220	0.098	0.416	0.375	0.167
NOJA476M002#WJ	A	47	2.5	2.4	8	1.6	1	0.237	0.213	0.095	0.379	0.342	0.152
NOJB476M002#WJ	B	47	2.5	2.4	6	1.6	1	0.252	0.227	0.101	0.404	0.364	0.162
NOJB686M002#WJ	B	68	2.5	3.4	6	1.5	1	0.261	0.235	0.104	0.391	0.352	0.156
NOJC686M002#WJ	C	68	2.5	3.4	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB107M002#WJ	B	100	2.5	5.0	6	1.4	1	0.270	0.243	0.108	0.378	0.340	0.151
NOJC107M002#WJ	C	100	2.5	5.0	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M002#WJ	C	150	2.5	7.5	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC227M002#WJ	C	220	2.5	11.0	8	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC337M002#WJ	C	330	2.5	16.5	10	0.3	1	0.663	0.597	0.265	0.199	0.179	0.080
NOJD337M002#WJ	D	330	2.5	16.5	10	0.3	3	0.775	0.697	0.310	0.232	0.209	0.093
NOJD477M002#WJ	D	470	2.5	23.5	10	0.3	3	0.775	0.697	0.310	0.323	0.209	0.093
NOJE477M002#WJ	E	470	2.5	23.5	10	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJE687M002#WJ	E	680	2.5	34.0	12	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV108M002#WJ	V	1000	2.5	50.0	18	0.3	3	1.000	0.900	0.400	0.300	0.270	0.120
4 Volt @ 85°C (2.7 Volt @ 105°C)													
NOJA156M004#WJ	A	15	4	1.2	6	2	1	0.212	0.191	0.085	0.424	0.382	0.170
NOJA226M004#WJ	A	22	4	1.8	6	1.9	1	0.218	0.196	0.087	0.414	0.372	0.165
NOJB226M004#WJ	B	22	4	1.8	6	1.9	1	0.232	0.209	0.093	0.440	0.396	0.176
NOJA336M004#WJ	A	33	4	2.6	10	1.7	1	0.230	0.207	0.092	0.391	0.352	0.156
NOJB336M004#WJ	B	33	4	2.6	6	1.7	1	0.245	0.220	0.098	0.416	0.375	0.167
NOJA476M004#WJ	A	47	4	3.8	18	2.2	1	0.202	0.182	0.081	0.445	0.400	0.178
NOJB476M004#WJ	B	47	4	3.8	6	1.6	1	0.252	0.227	0.101	0.404	0.364	0.162
NOJC476M004#WJ	C	47	4	3.8	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB686M004#WJ	B	68	4	5.4	6	1.5	1	0.261	0.235	0.104	0.391	0.352	0.156
NOJC686M004#WJ	C	68	4	5.4	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB107M004#WJ	B	100	4	8.0	16	1.4	1	0.270	0.243	0.108	0.378	0.340	0.151
NOJB107M004#WB	B	100	4	8.0	16	0.25	1	0.639	0.575	0.255	0.160	0.144	0.064
NOJC107M004#WJ	C	100	4	8.0	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M004#WJ	C	150	4	12.0	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJD157M004#WJ	D	150	4	12.0	6	0.3	3	0.775	0.697	0.310	0.232	0.209	0.093
NOJC227M004#WJ	C	220	4	17.6	8	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJD227M004#WJ	D	220	4	17.6	8	0.4	3	0.671	0.604	0.268	0.268	0.241	0.107
NOJD337M004#WJ	D	330	4	26.4	8	0.3	3	0.775	0.697	0.310	0.232	0.209	0.093
NOJD477M004#WJ	D	470	4	37.6	12	0.3	3	0.775	0.697	0.310	0.232	0.209	0.093
NOJE477M004#WJ	E	470	4	37.6	12	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJE687M004#WJ	E	680	4	54.4	14	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV687M004#WJ	V	680	4	54.4	14	0.3	3	1.000	0.900	0.400	0.300	0.270	0.120
NOJV108M004#WJ	V	1000	4	80.0	18	0.3	3	1.000	0.900	0.400	0.300	0.270	0.120
6.3 Volt @ 85°C (4 Volt @ 105°C)													
NOJA475M006#WJ	A	4.7	6.3	1.1	6	3.2	1	0168	0.151	0.067	0.537	0.483	0.215
NOJA685M006#WJ	A	6.8	6.3	1.1	6	2.6	1	0.186	0.167	0.074	0.484	0.435	0.193
NOJA106M006#WJ	A	10	6.3	1.2	6	2.2	1	0.202	0.182	0.081	0.445	0.400	0.178
NOJB156M006#WJ	B	15	6.3	1.8	6	2	1	0.226	0.203	0.090	0.452	0.406	0.181
NOJA156M006#WJ	A	15	6.3	1.8	8	2	1	0.212	0.191	0.085	0.424	0.382	0.170
NOJB226M006#WJ	B	22	6.3	2.6	6	1.9	1	0.232	0.209	0.093	0.440	0.396	0.176
NOJA226M006#WJ	A	22	6.3	2.6	8	1.8	1	0.224	0.201	0.089	0.402	0.362	0.161
NOJB336M006#WJ	B	33	6.3	4.0	6	1.7	1	0.245	0.220	0.098	0.416	0.375	0.167

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 123.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

OxiCap® NOJ Series

Niobium Oxide Capacitor

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @100kHz	MSL	100kHz RMS Current (A)			100kHz RMS Voltage (V)		
								25ºC	85ºC	105ºC	25ºC	85ºC	105ºC
6.3 Volt @ 85°C (4 Volt @ 105°C)													
NOJB336M006#WB	B	33	6.3	4.0	6	0.7	1	0.382	0.344	0.153	0.267	0.240	0.170
NOJC336M006#WJ	C	33	6.3	4.0	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB476M006#WJ	B	47	6.3	5.6	6	1.6	1	0.252	0.227	0.101	0.404	0.364	0.162
NOJC476M006#WJ	C	47	6.3	5.7	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB686M006#WJ	B	68	6.3	8.2	20	1.5	1	0.261	0.235	0.104	0.391	0.352	0.156
NOJC686M006#WJ	C	68	6.3	8.2	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJB107M006#WJ	B	100	6.3	60.0	20	1.7	1	0.245	0.220	0.098	0.416	0.375	0.167
NOJB107M006#WB	B	100	6.3	60.0	20	0.4	1	0.505	0.454	0.202	0.202	0.182	0.081
NOJC107M006#WJ	C	100	6.3	12.0	8	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJD107M006#WJ	D	100	6.3	12.0	6	0.4	3	0.671	0.604	0.268	0.268	0.241	0.107
NOJC157M006#WJ	C	150	6.3	18.0	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJD157M006#WJ	D	150	6.3	18.0	6	0.4	3	0.671	0.604	0.268	0.268	0.241	0.107
NOJC227M006#WJ	C	220	6.3	26.4	14	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJD227M006#WJ	D	220	6.3	26.4	8	0.4	3	0.671	0.604	0.268	0.268	0.241	0.107
NOJE227M006#WJ	E	220	6.3	26.4	12	0.4	3	0.704	0.633	0.281	0.281	0.253	0.113
NOJD337M006#WJ	D	330	6.3	39.6	10	0.3	3	0.775	0.697	0.310	0.232	0.209	0.093
NOJE337M006#WJ	E	330	6.3	39.6	12	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJE477M006#WJ	E	470	6.3	56.4	16	0.3	3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV477M006#WJ	V	470	6.3	56.4	12	0.3	3	1.000	0.900	0.400	0.300	0.270	0.120
10 Volt @ 85°C (7 Volt @ 105°C)													
NOJA475M010#WJ	A	4.7	10	1.0	6	3.1	1	0.170	0.153	0.068	0.528	0.475	0.211
NOJA685M010#WJ	A	6.8	10	1.4	6	2.6	1	0.186	0.167	0.074	0.484	0.435	0.193
NOJA106M010#WJ	A	10	10	2.0	6	2.2	1	0.202	0.182	0.081	0.445	0.400	0.178
NOJB106M010#WJ	B	10	10	2.0	6	2.2	1	0.215	0.194	0.086	0.474	0.426	0.189
NOJA156M010#WJ	A	15	10	3.0	6	2	1	0.212	0.191	0.085	0.424	0.382	0.170
NOJB156M010#WJ	B	15	10	3.0	6	2	1	0.226	0.203	0.090	0.452	0.406	0.181
NOJB226M010#WJ	B	22	10	4.4	6	1.8	1	0.238	0.214	0.095	0.428	0.386	0.171
NOJB226M010#WB	B	22	10	4.4	6	0.7	1	0.382	0.344	0.153	0.267	0.240	0.107
NOJC226M010#WJ	C	22	10	4.4	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJC336M010#WJ	C	33	10	6.6	6	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJC476M010#WJ	C	47	10	9.4	6	0.4	1	0.574	0.517	0.230	0.230	0.207	0.092
NOJC686M010#WJ	C	68	10	13.6	12	0.5	1	0.514	0.462	0.206	0.257	0.231	0.103
NOJD107M010#WJ	D	100	10	20.0	12	0.4	3	0.671	0.604	0.268	0.268	0.241	0.107
NOJD107M010#WB	D	100	10	20.0	12	0.15	3	1.095	0.986	0.438	0.164	0.148	0.066
NOJV227M010#WJ	V	220	10	44.0	12	0.4	3	0.866	0.779	0.346	0.364	0.312	0.139

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

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гарантия бесперебойности производства и качества выпускаемой продукции

О компании

ООО "ТрейдЭлектроникс" - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Наличие собственной эффективной системы логистики обеспечивает надежную поставку продукции по конкурентным ценам в точно указанные сроки.

Срок поставки со стоков в **Европе и Америке – от 3 до 14 дней.**

Срок поставки из **Азии – от 10 дней.**

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Предоставляем спец цены на элементы для создания инженерных сэмплов.

Упорный труд, качественный результат дают нам право быть уверенными в себе и надежными для наших клиентов.

Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование

Наша организация особенно сильна в поставках модулей, микросхем, пассивных компонентов, ксайленсах (XC), EPF, EPM и силовой электроники.

Большой выбор предлагаемой продукции, различные виды оплаты и доставки, позволят Вам сэкономить время и получить максимум выгоды от сотрудничества с нами!

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С уважением,

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