

OxiCap® NOJ Series



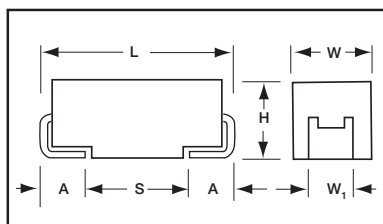
Niobium Oxide Capacitor



- 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



Electra 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)	W ₁ ±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)

W₁ 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

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)		
								25°C	85°C	105°C	25°C	85°C	105°C
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	0.168	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.

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)		
								25°C	85°C	105°C	25°C	85°C	105°C
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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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