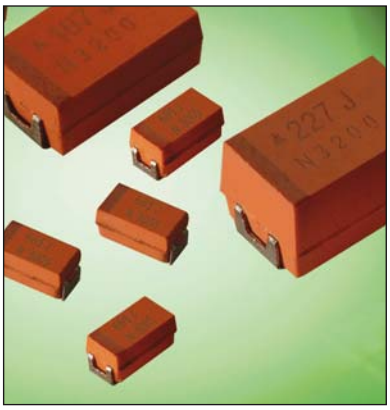
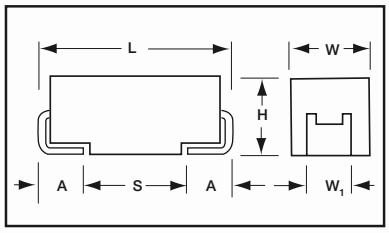
OxiCap™ NOS Low ESR Series

Niobium Oxide Capacitor



NOS Low ESR series of **OxiCap™** niobium oxide capacitors have been developed in order to offer significant **Cost versus Performance** value as the key requirement for mass manufactured electronic products. A new solid electrolyte capacitor **OxiCap™** has been developed by AVX in standard EIA SMT case sizes. The **OxiCap™ non-burn** technology is based on **NbO niobium oxide ceramic material** as the anodic material processed through the same manufacturing process as tantalum capacitors. Nb_2O_5 dielectric in combination to self-healing MnO_2 cathode is a basis for a excellent reliability level **0.2%/1000 hrs.** within a temperature range up to **125°C** and rated voltage **<6V** (rail voltage <5V). Electrical parameters are similar to general **low ESR** tantalum specifications. NbO and MnO_2 are widely available materials. The laser coded **orange molded body** gives total traceability.

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



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	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.
P*	2012-15	2.05 (0.081)	1.30 (0.051)	1.0 ±0.1 (0.039±0.004)	1.20 (0.047)	0.50 (0.020)	0.85 (0.033)
A	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.80 (0.071)
B	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	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	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	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)
Y	7343-20	7.30 (0.287)	4.30 (0.169)	2.00 Max (0.079)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
V	7361-38	7.30 (0.287)	6.10 (0.240)	3.45 ±0.30 (0.136±0.012)	3.10 (0.120)	1.40 (0.055)	1.80 (0.071)
Z*	7361-45	7.30 (0.287)	6.10 (0.240)	4.30 (0.169)	3.10 (0.120)	1.40 (0.055)	4.40 (0.173)

W_1 dimension applies to the termination width for A dimensional area only. *-under development

HOW TO ORDER

NOS	D	107	M	006	R	0100
Type	**Case Size**	**Capacitance Code** 1st two digits represent significant figures, 3rd digit represents multiplier in pF	**Capacitance Tolerance** M = ±20%	**Rated DC Voltage** 001 = 1.8Vdc 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc	**Packaging** R = Lead Free 7" Reel S = Lead Free 13" Reel	**ESR** ESR value in mOhms@100kHz

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C is not stated				
Capacitance Range:		10 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	
Category Voltage (V_C)	⩽+125°C:	0.9	1.3	2	3	
Surge Voltage (V_S)	⩽+85°C:	2.3	3.3	5.2	8	
	⩽+125°C:	1.2	1.7	2.6	4	
Temperature Range:		-55°C to +125°C				
Reliability:		0.2% per 1000 hours at 85°C, V_R, 0.1Ω/V series impedance, 60% confidence level				
		Meets requirements of AEC-Q200				

OxiCap™ NOS Low ESR 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 / 0.5 DC to 125°C			
µF	Code	1.8V (x)	2.5V (e)	4.0V (G)	6.3V (J)
4.7	475				
6.8	685				
10	106				A(2000)
15	156			A(1500)	B(600)
22	226		A(900)	B(600)	B(600)
33	336	A(900)	B(600)*	B(600)	B(600) C(500) W(250)
47	476	B(500)	B(500)	B(500) C(300) W(150)	C(300)
68	686	B(500)	C(200) W(150)	C(200)	C(75,200) X(100) Y(100)
100	107	B(350) C(200) W(150)	C(150)	C(70,150) X(100)	C(150) D(80,100) Y(100)
150	157	C(150)	C(65,150) X(100)	C(90,150) Y(100)	D(70,100) Y(100)
220	227	C(125) X(100)	C(80,125) Y(100)	D(60,100) Y(100)	D(60,100) E(80,100)
330	337	C(125) Y(100)	D(100) Y(100	D(100) E(100)	E(80,100)
470	477	D(100) Y(100)	D(55,100) E(100)	D(100) E(75,100)	V(75)
680	687	D(100) E(100)	E(60)	V(75)	
1000	108	E(60)	V(50)		
1500	158	V(50)	Z		
2200	228	Z			

Developmental Ratings - subject to change

Violet - Please Contact Manufacturer

LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT

HALOGEN-FREE COMPOUNDS

ENVIRONMENTAL FRIENDLY COMPONENT

NON-BURN NON-SMOKE

OxiCap™ NOS Low ESR Series

Niobium Oxide Capacitor

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage(V)	DCL (µA)	DF %	ESR Max. (mΩ) @100kHz	100kHz Ripple Current Ratings (A)			100kHz Ripple Voltage Ratings (V)		
							25ºC	85ºC	125ºC	25ºC	85ºC	125ºC
1.8 Volt @ 85°C (1.2 Volt @ 105°C, 0.9V @ 125ºC)												
NOSB107M001#0350	B	100	1.8	3.6	6	350	0.540	0.486	0.216	0.189	0.170	0.076
NOSW107M001#0150	W	100	1.8	3.6	6	150	0.849	0.764	0.339	0.127	0.115	0.051
NOSC227M001#0125	C	220	1.8	8.0	8	125	1.028	0.925	0.411	0.128	0.116	0.051
NOSX227M001#0100	X	220	1.8	8.0	8	100	1.095	0.986	0.438	0.110	0.099	0.044
NOSY337M001#0100	Y	330	1.8	11.9	8	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSY477M001#0100	Y	470	1.8	16.9	8	100	1.225	1.102	0.490	0.122	0.110	0.049
2.5 Volt @ 85°C (1.7 Volt @ 105°C, 1.3V @ 125ºC)												
NOSA226M002#0900	A	22	2.5	1.1	6	900	0.316	0.285	0.126	0.285	0.256	0.114
NOSB336M002#0600	B	33	2.5	1.7	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSB476M002#0500	B	47	2.5	2.4	6	500	0.452	0.406	0.181	0.226	0.203	0.090
NOSC686M002#0200	C	68	2.5	3.4	6	200	0.812	0.731	0.325	0.162	0.146	0.065
NOSW686M002#0150	W	68	2.5	3.4	6	150	0.849	0.764	0.339	0.127	0.115	0.051
NOSC107M002#0150	C	100	2.5	5.0	6	150	0.938	0.844	0.375	0.141	0.127	0.056
NOSC157M002#0065	C	150	2.5	7.6	6	65	1.425	1.283	0.570	0.093	0.083	0.037
NOSC157M002#0150	C	150	2.5	7.6	6	150	0.938	0.844	0.375	0.141	0.127	0.056
NOSX157M002#0100	X	150	2.5	7.5	6	100	1.095	0.986	0.438	0.110	0.099	0.044
NOSC227M002#0080	C	220	2.5	11.0	8	80	1.285	1.156	0.514	0.103	0.092	0.041
NOSC227M002#0125	C	220	2.5	11.0	8	125	1.028	0.925	0.411	0.128	0.116	0.051
NOSY227M002#0100	Y	220	2.5	11.0	8	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD337M002#0100	D	330	2.5	16.5	10	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSY337M002#0100	Y	330	2.5	16.5	10	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD447M002#0055	D	470	2.5	23.5	10	55	1.809	1.628	0.724	0.099	0.090	0.040
NOSD447M002#0100	D	470	2.5	23.5	10	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSE477M002#0100	E	470	2.5	23.5	10	100	1.407	1.266	0.563	0.141	0.127	0.056
NOSE687M002#0060	E	680	2.5	34.0	12	60	1.817	1.635	0.727	0.109	0.098	0.044
NOSV108M002#0050	V	1000	2.5	50.0	18	50	2.449	2.205	0.980	0.122	0.110	0.049
4 Volt @ 85°C (2.7 Volt @ 105°C, 2V @ 125ºC)												
NOSA156M004#1500	A	15	4	1.2	6	1500	0.245	0.220	0.098	0.367	0.331	0.147
NOSB226M004#0600	B	22	4	1.8	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSB336M004#0600	B	33	4	2.6	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSB476M004#0500	B	47	4	3.8	6	500	0.452	0.406	0.181	0.226	0.203	0.090
NOSC476M004#0300	C	47	4	3.8	6	300	0.663	0.597	0.265	0.199	0.179	0.080
NOSW476M004#0150	W	47	4	3.8	6	150	0.849	0.764	0.339	0.127	0.115	0.051
NOSC686M004#0200	C	68	4	5.4	6	200	0.812	0.731	0.325	0.162	0.146	0.065
NOSC107M004#0070	C	100	4	8.0	6	70	1.373	1.236	0.549	0.096	0.087	0.038
NOSC107M004#0150	C	100	4	8.0	6	150	0.938	0.844	0.375	0.141	0.127	0.056
NOSX107M004#0100	X	100	4	8.0	6	100	1.095	0.986	0.438	0.110	0.099	0.044
NOSC157M004#0090	C	150	4	12.0	6	90	1.211	1.090	0.484	0.109	0.098	0.044
NOSC157M004#0150	C	150	4	12.0	6	150	0.938	0.844	0.375	0.141	0.127	0.056
NOSY157M004#0100	Y	150	4	12.0	6	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD227M004#0060	D	220	4	17.6	8	60	1.732	1.559	0.693	0.104	0.094	0.042
NOSD227M004#0100	D	220	4	17.6	8	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSY227M004#0100	Y	220	4	17.6	10	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD337M004#0100	D	330	4	26.4	8	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSE337M004#0100	E	330	4	26.4	8	100	1.407	1.266	0.563	0.141	0.127	0.056
NOSD477M004#0100	D	470	4	37.6	12	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSE477M004#0075	E	470	4	37.6	12	75	1.625	1.462	0.650	0.122	0.110	0.049
NOSE477M004#0100	E	470	4	37.6	12	100	1.407	1.266	0.563	0.141	0.127	0.056
NOSV687M004#0075	V	680	4	54.4	14	75	2.000	1.800	0.800	0.150	0.135	0.060

Violet - Please Contact Manufacturer

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

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

OxiCap™ NOS Low ESR Series

Niobium Oxide Capacitor

RATINGS & PART NUMBER REFERENCE

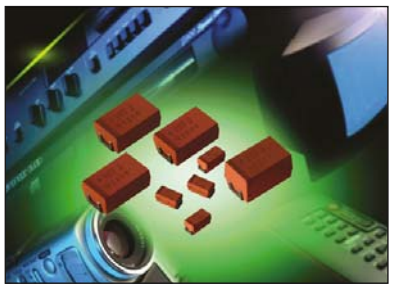
AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage(V)	DCL (µA)	DF %	ESR Max. (mΩ) @100kHz	100kHz Ripple Current Ratings (A)			100kHz Ripple Voltage Ratings (V)		
							25ºC	85ºC	125ºC	25ºC	85ºC	125ºC
6.3 Volt @ 85°C (4 Volt @ 105°C, 3V @ 125ºC)												
NOSA106M006#2000	A	10	6.3	1.2	6	2000	0.212	0.191	0.085	0.424	0.382	0.170
NOSB156M006#0600	B	15	6.3	1.8	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSB226M006#0600	B	22	6.3	2.6	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSB336M006#0600	B	33	6.3	4.0	6	600	0.412	0.371	0.165	0.247	0.223	0.099
NOSC336M006#0500	C	33	6.3	4.0	6	500	0.514	0.462	0.206	0.257	0.231	0.103
NOSW336M006#0250	W	33	6.3	4.0	6	250	0.657	0.592	0.263	0.164	0.148	0.066
NOSC476M006#0300	C	47	6.3	5.7	6	300	0.663	0.597	0.265	0.199	0.179	0.080
NOSC686M006#0075	C	68	6.3	8.2	6	75	1.327	1.194	0.531	0.099	0.090	0.040
NOSC686M006#0200	C	68	6.3	8.2	6	200	0.812	0.731	0.325	0.162	0.146	0.065
NOSX686M006#0100	X	68	6.3	8.2	6	100	1.095	0.986	0.438	0.110	0.099	0.044
NOSY686M006#0100	Y	68	6.3	8.2	6	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSC107M006#0150	C	100	6.3	12.0	8	150	0.938	0.844	0.375	0.141	0.127	0.056
NOSD107M006#0080	D	100	6.3	12.0	6	80	1.500	1.350	0.600	0.120	0.108	0.048
NOSD107M006#0100	D	100	6.3	12.0	6	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSY107M006#0100	Y	100	6.3	12.0	6	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD157M006#0070	D	150	6.3	18.0	6	70	1.604	1.443	0.641	0.112	0.101	0.045
NOSD157M006#0100	D	150	6.3	18.0	6	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSY157M006#0100	Y	150	6.3	18.0	6	100	1.225	1.102	0.490	0.122	0.110	0.049
NOSD227M006#0060	D	220	6.3	26.4	8	60	1.732	1.559	0.693	0.104	0.094	0.042
NOSD227M006#0100	D	220	6.3	26.4	8	100	1.342	1.207	0.537	0.134	0.121	0.054
NOSE227M006#0080	E	220	6.3	26.4	12	80	1.573	1.416	0.629	0.126	0.113	0.050
NOSE227M006#0100	E	220	6.3	26.4	12	100	1.407	1.266	0.563	0.141	0.127	0.056
NOSE337M006#0080	E	330	6.3	39.6	12	80	1.573	1.416	0.629	0.126	0.113	0.050
NOSE337M006#0100	E	330	6.3	39.6	12	100	1.407	1.266	0.563	0.141	0.127	0.056
NOSV477M006#0075	V	470	6.3	56.4	12	75	2.000	1.800	0.800	0.150	0.135	0.060

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

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

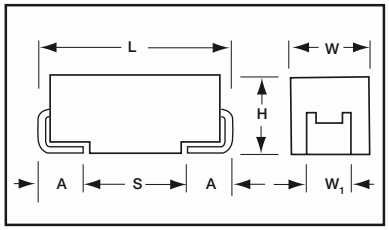
OxiCap™ NOJ Series

Niobium Oxide Capacitor



Cost versus Performance is a key requirement for consumer electronic products. A new solid electrolyte capacitor **OxiCap™** has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market. The **OxiCap™ non-burn[1]** technology is based on **NbO niobium oxide ceramic material** as the anodic material processed through the same manufacturing process as tantalum capacitors. Nb_2O_5 dielectric in combination to self-healing MnO_2 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 MnO_2 are widely available materials. The laser coded **orange molded body** gives total traceability.

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



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	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	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.80 (0.071)
B	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	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	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	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	7361-38	7.30 (0.287)	6.10 (0.240)	3.45 ±0.30 (0.136±0.012)	3.10 (0.120)	1.40 (0.055)	1.80 (0.071)
Z*	7361-45	7.30 (0.287)	6.10 (0.240)	4.30 (0.169)	3.10 (0.120)	1.40 (0.055)	4.40 (0.173)

W_1 dimension applies to the termination width for A dimensional area only. *-under development

HOW TO ORDER

NOJ	D	107	M	006	RWJ
Type	**Case Size**	**Capacitance Code** 1st two digits represent significant figures, 3rd digit represents multiplier in pF	**Capacitance Tolerance** M = ±20%	**Rated DC Voltage** 001 = 1.8Vdc 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc	**Packaging** R = Lead Free 7" Reel S = Lead Free 13" Reel

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C is not stated					
Capacitance Range:		4.7 µF to 1500 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	
	⩽+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	B	B
22	226		A	A/B	B	B/C
33	336	A	A/B	B	B/C	C
47	476	A/B	B	B/C	C	C
68	686	B	B/C	B/C	C	D
100	107	B/C	B/C	C	C/D	D
150	157	B/C	C	C/D	C/D	E
220	227	C	C	C/D	D/E	V
330	337	C	C/D	D	E	
470	477	C/D	D/E	D/E	V	
680	687	D	E	V	Z	
1000	108	E	V	Z		
1500	158	V	Z			
2200	228	Z				

Developmental Ratings - subject to change

Z case = 4.5mm height V

LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT

HALOGEN-FREE COMPOUNDS

ENVIRONMENTAL FRIENDLY COMPONENT

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	100kHz Ripple Current (A)			100kHz Ripple Voltage (V)		
							25ºC	85ºC	105ºC	25ºC	85ºC	105ºC
1.8 Volt @ 85°C (1.2 Volt @ 105°C)												
NOJB476M001#	B	47	1.8	1.7	6	1.6	0.252	0.227	0.101	0.404	0.364	0.162
NOJB686M001#	B	68	1.8	2.5	6	1.5	0.261	0.235	0.104	0.391	0.352	0.156
NOJB107M001#	B	100	1.8	3.6	6	1.4	0.270	0.243	0.108	0.378	0.340	0.151
NOJC107M001#	C	100	1.8	3.6	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M001#	C	150	1.8	5.4	8	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC227M001#	C	220	1.8	8.0	8	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC337M001#	C	330	1.8	11.9	8	0.3	0.663	0.597	0.265	0.199	0.179	0.080
2.5 Volt @ 85°C (1.7 Volt @ 105°C)												
NOJA226M002#	A	22	2.5	1.1	6	1.9	0.218	0.196	0.087	0.414	0.372	0.165
NOJA336M002#	A	33	2.5	1.7	6	1.7	0.230	0.207	0.092	0.391	0.352	0.156
NOJB336M002#	B	33	2.5	1.7	6	1.7	0.245	0.220	0.098	0.416	0.375	0.167
NOJB476M002#	B	47	2.5	2.4	6	1.6	0.252	0.227	0.101	0.404	0.364	0.162
NOJB686M002#	B	68	2.5	3.4	6	1.5	0.261	0.235	0.104	0.391	0.352	0.156
NOJC686M002#	C	68	2.5	3.4	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJB107M002#	B	100	2.5	5.0	6	1.4	0.270	0.243	0.108	0.378	0.340	0.151
NOJC107M002#	C	100	2.5	5.0	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M002#	C	150	2.5	7.5	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC227M002#	C	220	2.5	11.0	8	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC337M002#	C	330	2.5	16.5	10	0.3	0.663	0.597	0.265	0.199	0.179	0.080
NOJD337M002#	D	330	2.5	16.5	10	0.3	0.775	0.697	0.310	0.232	0.209	0.093
NOJD477M002#	D	470	2.5	23.5	10	0.3	0.775	0.697	0.310	0.323	0.209	0.093
NOJE477M002#	E	470	2.5	23.5	10	0.3	0.812	0.731	0.325	0.244	0.219	0.097
NOJE687M002#	E	680	2.5	34.0	12	0.3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV108M002#	V	1000	2.5	50.0	18	0.3	1.000	0.900	0.400	0.300	0.270	0.120
4 Volt @ 85°C (2.7 Volt @ 105°C)												
NOJA156M004#	A	15	4	1.2	6	2	0.212	0.191	0.085	0.424	0.382	0.170
NOJA226M004#	A	22	4	1.8	6	1.9	0.218	0.196	0.087	0.414	0.372	0.165
NOJB226M004#	B	22	4	1.8	6	1.9	0.232	0.209	0.093	0.440	0.396	0.176
NOJB336M004#	B	33	4	2.6	6	1.7	0.245	0.220	0.098	0.416	0.375	0.167
NOJB476M004#	B	47	4	3.8	6	1.6	0.252	0.227	0.101	0.404	0.364	0.162
NOJC476M004#	C	47	4	3.8	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJB686M004#	B	68	4	5.4	6	1.5	0.261	0.235	0.104	0.391	0.352	0.156
NOJC686M004#	C	68	4	5.4	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC107M004#	C	100	4	8.0	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJC157M004#	C	150	4	12.0	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJD157M004#	D	150	4	12.0	6	0.3	0.775	0.697	0.310	0.232	0.209	0.093
NOJD227M004#	D	220	4	17.6	8	0.4	0.671	0.604	0.268	0.268	0.241	0.107
NOJD337M004#	D	330	4	26.4	8	0.3	0.775	0.697	0.310	0.232	0.209	0.093
NOJD477M004#	D	470	4	37.6	12	0.3	0.775	0.697	0.310	0.232	0.209	0.093
NOJE477M004#	E	470	4	37.6	12	0.3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV687M004#	V	680	4	54.4	14	0.3	1.000	0.900	0.400	0.300	0.270	0.120
6.3 Volt @ 85°C (4 Volt @ 105°C)												
NOJA475M006#	A	4.7	6.3	1.1	6	3.1	0.170	0.153	0.068	0.528	0.475	0.211
NOJA685M006#	A	6.8	6.3	1.1	6	2.6	0.186	0.167	0.074	0.484	0.435	0.193
NOJA106M006#	A	10	6.3	1.2	6	2.2	0.202	0.182	0.081	0.445	0.400	0.178
NOJB156M006#	B	15	6.3	1.8	6	2	0.226	0.203	0.090	0.452	0.406	0.181
NOJB226M006#	B	22	6.3	2.6	6	1.9	0.232	0.209	0.093	0.440	0.396	0.176
NOJB336M006#	B	33	6.3	4.0	6	1.7	0.245	0.220	0.098	0.416	0.375	0.167
NOJC336M006#	C	33	6.3	4.0	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC476M006#	C	47	6.3	5.7	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC686M006#	C	68	6.3	8.2	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC107M006#	C	100	6.3	12.0	8	0.4	0.574	0.517	0.230	0.230	0.207	0.092
NOJD107M006#	D	100	6.3	12.0	6	0.4	0.671	0.604	0.268	0.268	0.241	0.107
NOJD157M006#	D	150	6.3	18.0	6	0.4	0.671	0.604	0.268	0.268	0.241	0.107
NOJD227M006#	D	220	6.3	26.4	8	0.4	0.671	0.604	0.268	0.268	0.241	0.107
NOJE227M006#	E	220	6.3	26.4	12	0.4	0.704	0.633	0.281	0.281	0.253	0.113
NOJE337M006#	E	330	6.3	39.6	12	0.3	0.812	0.731	0.325	0.244	0.219	0.097
NOJV477M006#	V	470	6.3	56.4	12	0.3	1.000	0.900	0.400	0.300	0.270	0.120

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

NOTE: AVX reserves the rights to supply higher voltage rating 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	100kHz Ripple Current (A)			100kHz Ripple Voltage (V)		
							25ºC	85ºC	105ºC	25ºC	85ºC	105ºC
10 Volt @ 85°C (7 Volt @ 105°C)												
NOJA475M010#	A	4.7	10	1.0	6	3.1	0.170	0.153	0.068	0.528	0.475	0.211
NOJA685M010#	A	6.8	10	1.4	6	2.6	0.186	0.167	0.074	0.484	0.435	0.193
NOJA106M010#	A	10	10	2.0	6	2.2	0.202	0.182	0.081	0.445	0.400	0.178
NOJB106M010#	B	10	10	2.0	6	2.2	0.215	0.194	0.086	0.474	0.426	0.189
NOJB156M010#	B	15	10	3.0	6	2	0.226	0.203	0.090	0.452	0.406	0.181
NOJB226M010#	B	22	10	4.4	6	1.8	0.238	0.214	0.095	0.428	0.386	0.171
NOJC226M010#	C	22	10	4.4	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC336M010#	C	33	10	6.6	6	0.5	0.514	0.462	0.206	0.257	0.231	0.103
NOJC476M010#	C	47	10	9.4	6	0.4	0.574	0.517	0.230	0.230	0.207	0.092

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

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.