

OxiCap® NOS Low ESR Series

Niobium Oxide Capacitor



FEATURES

- Low ESR NbO capacitors
- Non-burn safe technology
- Reliability level: 0.2%/1000 hrs.
- CV range: 10-1000µF / 1.8-8V
- 9 case sizes available
- IBM global approval received in 2004
- Elektra Award received in 2005
- Meets requirements of AEC-Q200
- -55 to +125°C operation temperature

APPLICATIONS

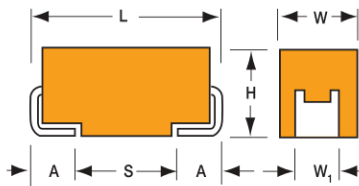
- Medium power DC/DC for transportation and automotive industry



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT

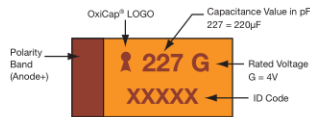


Elektra Award
2005



MARKING

A, B, C, D, E, V, W, X, Y CASE



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 (0.122)	1.30 (0.051)	4.40 (0.173)
W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059) max.	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
X	2917	7343-15	7.30 (0.287)	4.30 (0.169)	1.50 (0.059) max.	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
Y	2917	7343-20	7.30 (0.287)	4.30 (0.169)	2.00 (0.079) max.	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

W1 dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

NOS



Type

D



Case Size
See table above

107



Capacitance Code
1st two digits represent
significant figures,
3rd digit represents
multiplier in pF

M



Tolerance
M = ±20%

006



Rated
DC Voltage
001 = 1.8Vdc
002 = 2.5Vdc
004 = 4Vdc
006 = 6.3Vdc
008 = 8Vdc

R



Packaging
R = Pure Tin 7" Reel
S = Pure Tin 13" Reel

0100



ESR in mΩ

-



Additional characters
may be added for
special requirements
V = Dry pack Option
(selected codes only)
with exception of
D, E, X, Y, V cases

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	8
Category Voltage (V _C)	≤ +105°C:	1.2	1.7	2.7	4	7
Category Voltage (V _C)	≤ +125°C:	0.9	1.3	2	3	4
Surge Voltage (V _S)	≤ +85°C:	2.3	3.3	5.2	8	10
Surge Voltage (V _S)	≤ +105°C:	1.6	2.2	3.4	5	8
Surge Voltage (V _S)	≤ +125°C:	1.2	1.7	2.6	4	5.3
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					

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Niobium Oxide Capacitor



CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R) to 85°C				
μF	Code	1.8V (x)	2.5V (e)	4.0V (G)	6.3V (J)	8V (P)
10	106				A(800,1000,2000,2200)	A(2200) B(1000)
15	156			A(1500,2000)	B(600,2000)	B(1000)
22	226		A(900,1900)	B(600,1900)	B(600,1900)	B(700,1800) C(500)
33	336		B(1700)	B(600,1700)	B(600,1700) C(500) W(250,500)	C(500)
47	476		B(500,1600)	B(500,1600) C(300,500) W(150,500)	B(500,800) C(300,500)	C(400)
68	686		C(200,500) W(150,400)	C(200,500)	C(75,200,500) X(100,500) Y(100,500)	C(500)
100	107	B(350,1400) W(150,400)	C(150,400)	C(70,150,400) X(100,400)	C(150,400) D(80,100,400) Y(100,400)	D(400)
150	157	C(400)	C(65,150,400) X(100,400)	C(90,150,400) Y(100,400)	D(50,70,100,400) Y(100,400)	
220	227	C(125,400) X(100,400)	C(80,125,400) Y(100,400)	D(40,60,100,400) Y(100,400)	D(45,60,100,400) E(80,100,400)	
330	337	Y(100,300)	D(35,50,100,300) Y(100,300)	D(35,55,100,300) E(100) Y(150,300)	E(80,100,300)	
470	477	Y(100,300)	D(35,55,100,300) E(100,300)	D(100,300) E(75,100,300)	V(75,300)	
680	687		E(60,300)	V(75,300)		
1000	108		V(50,300)			

Released ratings (ESR ratings in mOhms in parentheses)

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

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Niobium Oxide Capacitor



RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
1.8 Volt @ 85°C													
NOSB107M001#0350	B	100	1.8	85	0.9	125	3.6	6	350	0.540	0.486	0.216	1
NOSB107M001#1400	B	100	1.8	85	0.9	125	3.6	6	1400	0.270	0.243	0.108	1
NOSW107M001#0150	W	100	1.8	85	0.9	125	3.6	6	150	0.849	0.764	0.339	1
NOSW107M001#0400	W	100	1.8	85	0.9	125	3.6	6	400	0.520	0.468	0.208	1
NOSC157M001#0400	C	150	1.8	85	0.9	125	5.4	8	400	0.574	0.517	0.230	1
NOSC227M001#0125	C	220	1.8	85	0.9	125	8.0	8	125	1.028	0.925	0.411	1
NOSC227M001#0400	C	220	1.8	85	0.9	125	8.0	8	400	0.574	0.517	0.230	1
NOSX227M001#0100	X	220	1.8	85	0.9	125	8.0	8	100	1.095	0.986	0.438	3
NOSX227M001#0400	X	220	1.8	85	0.9	125	8.0	8	400	0.548	0.493	0.219	3
NOSY337M001#0100	Y	330	1.8	85	0.9	125	11.9	8	100	1.225	1.102	0.490	3
NOSY337M001#0300	Y	330	1.8	85	0.9	125	11.9	8	300	0.707	0.636	0.283	3
NOSY477M001#0100	Y	470	1.8	85	0.9	125	17.0	8	100	1.225	1.102	0.490	3
NOSY477M001#0300	Y	470	1.8	85	0.9	125	17.0	8	300	0.707	0.636	0.283	3
2.5 Volt @ 85°C													
NOSA226M002#0900	A	22	2.5	85	1.3	125	1.1	6	900	0.316	0.285	0.126	1
NOSA226M002#1900	A	22	2.5	85	1.3	125	1.1	6	1900	0.218	0.196	0.087	1
NOSB336M002#1700	B	33	2.5	85	1.3	125	1.7	6	1700	0.245	0.220	0.098	1
NOSB476M002#0500	B	47	2.5	85	1.3	125	2.4	6	500	0.452	0.406	0.181	1
NOSB476M002#1600	B	47	2.5	85	1.3	125	2.4	6	1600	0.252	0.227	0.101	1
NOSC686M002#0200	C	68	2.5	85	1.3	125	3.4	6	200	0.812	0.731	0.325	1
NOSC686M002#0500	C	68	2.5	85	1.3	125	3.4	6	500	0.514	0.462	0.206	1
NOSW686M002#0150	W	68	2.5	85	1.3	125	3.4	6	150	0.849	0.764	0.339	1
NOSW686M002#0400	W	68	2.5	85	1.3	125	3.4	6	400	0.520	0.468	0.208	1
NOSC107M002#0150	C	100	2.5	85	1.3	125	5.0	6	150	0.938	0.844	0.375	1
NOSC107M002#0400	C	100	2.5	85	1.3	125	5.0	6	400	0.574	0.517	0.230	1
NOSC157M002#0065	C	150	2.5	85	1.3	125	7.5	6	65	1.425	1.283	0.570	1
NOSC157M002#0150	C	150	2.5	85	1.3	125	7.5	6	150	0.938	0.844	0.375	1
NOSC157M002#0400	C	150	2.5	85	1.3	125	7.5	6	400	0.574	0.517	0.230	1
NOSX157M002#0100	X	150	2.5	85	1.3	125	7.5	6	100	1.095	0.986	0.438	3
NOSX157M002#0400	X	150	2.5	85	1.3	125	7.5	6	400	0.548	0.493	0.219	3
NOSC227M002#0080	C	220	2.5	85	1.3	125	11.0	8	80	1.285	1.156	0.514	1
NOSC227M002#0125	C	220	2.5	85	1.3	125	11.0	8	125	1.028	0.925	0.411	1
NOSC227M002#0400	C	220	2.5	85	1.3	125	11.0	8	400	0.574	0.517	0.230	1
NOSY227M002#0100	Y	220	2.5	85	1.3	125	11.0	8	100	1.225	1.102	0.490	3
NOSY227M002#0400	Y	220	2.5	85	1.3	125	11.0	8	400	0.612	0.551	0.245	3
NOSD337M002#0035	D	330	2.5	85	1.3	125	16.5	10	35	2.268	2.041	0.907	3
NOSD337M002#0050	D	330	2.5	85	1.3	125	16.5	10	50	1.897	1.708	0.759	3
NOSD337M002#0100	D	330	2.5	85	1.3	125	16.5	10	100	1.342	1.207	0.537	3
NOSD337M002#0300	D	330	2.5	85	1.3	125	16.5	10	300	0.775	0.697	0.310	3
NOSY337M002#0100	Y	330	2.5	85	1.3	125	16.5	10	100	1.225	1.102	0.490	3
NOSY337M002#0300	Y	330	2.5	85	1.3	125	16.5	10	300	0.707	0.636	0.283	3
NOSD477M002#0035	D	470	2.5	85	1.3	125	23.5	12	35	2.268	2.041	0.907	3
NOSD477M002#0055	D	470	2.5	85	1.3	125	23.5	12	55	1.809	1.628	0.724	3
NOSD477M002#0100	D	470	2.5	85	1.3	125	23.5	12	100	1.342	1.207	0.537	3
NOSD477M002#0300	D	470	2.5	85	1.3	125	23.5	12	300	0.775	0.697	0.310	3
NOSE477M002#0100	E	470	2.5	85	1.3	125	23.5	10	100	1.407	1.266	0.563	3
NOSE477M002#0300	E	470	2.5	85	1.3	125	23.5	10	300	0.812	0.731	0.325	3
NOSE687M002#0060	E	680	2.5	85	1.3	125	34.0	14	60	1.817	1.635	0.727	3
NOSE687M002#0300	E	680	2.5	85	1.3	125	34.0	14	300	0.812	0.731	0.325	3
NOSV108M002#0050	V	1000	2.5	85	1.3	125	50.0	16	50	2.449	2.205	0.980	3
NOSV108M002#0300	V	1000	2.5	85	1.3	125	50.0	16	300	1.000	0.900	0.400	3
4 Volt @ 85°C													
NOSA156M004#1500	A	15	4	85	2	125	1.2	6	1500	0.245	0.220	0.098	1
NOSA156M004#2000	A	15	4	85	2	125	1.2	6	2000	0.212	0.191	0.085	1
NOSB226M004#0600	B	22	4	85	2	125	1.8	6	600	0.412	0.371	0.165	1
NOSB226M004#1900	B	22	4	85	2	125	1.8	6	1900	0.232	0.209	0.093	1
NOSB336M004#0600	B	33	4	85	2	125	2.6	6	600	0.412	0.371	0.165	1
NOSB336M004#1700	B	33	4	85	2	125	2.6	6	1700	0.245	0.220	0.098	1
NOSB476M004#0500	B	47	4	85	2	125	3.8	6	500	0.452	0.406	0.181	1
NOSB476M004#1600	B	47	4	85	2	125	3.8	6	1600	0.252	0.227	0.101	1
NOSC476M004#0300	C	47	4	85	2	125	3.8	6	300	0.663	0.597	0.265	1
NOSC476M004#0500	C	47	4	85	2	125	3.8	6	500	0.514	0.462	0.206	1
NOSW476M004#0150	W	47	4	85	2	125	3.8	6	150	0.849	0.764	0.339	1
NOSW476M004#0500	W	47	4	85	2	125	3.8	6	500	0.465	0.418	0.186	1
NOSC686M004#0200	C	68	4	85	2	125	5.4	6	200	0.812	0.731	0.325	1
NOSC686M004#0500	C	68	4	85	2	125	5.4	6	500	0.514	0.462	0.206	1
NOSC107M004#0070	C	100	4	85	2	125	8.0	6	70	1.373	1.236	0.549	1
NOSC107M004#0150	C	100	4	85	2	125	8.0	6	150	0.938	0.844	0.375	1
NOSC107M004#0400	C	100	4	85	2	125	8.0	6	400	0.574	0.517	0.230	1
NOSX107M004#0100	X	100	4	85	2	125	8.0	6	100	1.095	0.986	0.438	3

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RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
NOSX107M004#0400	X	100	4	85	2	125	8.0	6	400	0.548	0.493	0.219	3
NOSC157M004#0090	C	150	4	85	2	125	12.0	6	90	1.211	1.090	0.484	1
NOSC157M004#0150	C	150	4	85	2	125	12.0	6	150	0.938	0.844	0.375	1
NOSC157M004#0400	C	150	4	85	2	125	12.0	6	400	0.574	0.517	0.230	1
NOSY157M004#0100	Y	150	4	85	2	125	12.0	6	100	1.225	1.102	0.490	3
NOSY157M004#0400	Y	150	4	85	2	125	12.0	6	400	0.612	0.551	0.245	3
NOSD227M004#0040	D	220	4	85	2	125	17.6	8	40	2.121	1.909	0.849	3
NOSD227M004#0060	D	220	4	85	2	125	17.6	8	60	1.732	1.559	0.693	3
NOSD227M004#0100	D	220	4	85	2	125	17.6	8	100	1.342	1.207	0.537	3
NOSD227M004#0400	D	220	4	85	2	125	17.6	8	400	0.671	0.604	0.268	3
NOSY227M004#0100	Y	220	4	85	2	125	17.6	10	100	1.225	1.102	0.490	3
NOSY227M004#0400	Y	220	4	85	2	125	17.6	10	400	0.612	0.551	0.245	3
NOSD337M004#0035	D	330	4	85	2	125	26.4	8	35	2.268	2.041	0.907	3
NOSD337M004#0055	D	330	4	85	2	125	26.4	8	55	1.809	1.628	0.724	3
NOSD337M004#0100	D	330	4	85	2	125	26.4	8	100	1.342	1.207	0.537	3
NOSD337M004#0300	D	330	4	85	2	125	26.4	8	300	0.775	0.697	0.310	3
NOSE337M004#0100	E	330	4	85	2	125	26.4	8	100	1.407	1.266	0.563	3
NOSY337M004#0150	Y	330	4	85	2	125	26.4	12	150	1.000	0.900	0.400	3
NOSY337M004#0300	Y	330	4	85	2	125	26.4	12	300	0.707	0.636	0.283	3
NOSD477M004#0100	D	470	4	85	2	125	37.6	12	100	1.342	1.207	0.537	3
NOSD477M004#0300	D	470	4	85	2	125	37.6	12	300	0.775	0.697	0.310	3
NOSE477M004#0075	E	470	4	85	2	125	37.6	12	75	1.625	1.462	0.650	3
NOSE477M004#0100	E	470	4	85	2	125	37.6	12	100	1.407	1.266	0.563	3
NOSE477M004#0300	E	470	4	85	2	125	37.6	12	300	0.812	0.731	0.325	3
NOSV687M004#0075	V	680	4	85	2	125	54.4	14	75	2.000	1.800	0.800	3
NOSV687M004#0300	V	680	4	85	2	125	54.4	14	300	1.000	0.900	0.400	3
6.3 Volt @ 85°C													
NOSA106M006#0800	A	10	6.3	85	3	125	1.2	6	800	0.335	0.302	0.134	1
NOSA106M006#1000	A	10	6.3	85	3	125	1.2	6	1000	0.300	0.270	0.120	1
NOSA106M006#2000	A	10	6.3	85	3	125	1.2	6	2000	0.212	0.191	0.085	1
NOSA106M006#2200	A	10	6.3	85	3	125	1.2	6	2200	0.202	0.182	0.081	1
NOSB156M006#0600	B	15	6.3	85	3	125	1.8	6	600	0.412	0.371	0.165	1
NOSB156M006#2000	B	15	6.3	85	3	125	1.8	6	2000	0.226	0.203	0.090	1
NOSB226M006#0600	B	22	6.3	85	3	125	2.6	6	600	0.412	0.371	0.165	1
NOSB226M006#1900	B	22	6.3	85	3	125	2.6	6	1900	0.232	0.209	0.093	1
NOSB336M006#0600	B	33	6.3	85	3	125	4.0	6	600	0.412	0.371	0.165	1
NOSB336M006#1700	B	33	6.3	85	3	125	4.0	6	1700	0.245	0.220	0.098	1
NOSC336M006#0500	C	33	6.3	85	3	125	4.0	6	500	0.514	0.462	0.206	1
NOSW336M006#0250	W	33	6.3	85	3	125	4.0	6	250	0.657	0.592	0.263	1
NOSW336M006#0500	W	33	6.3	85	3	125	4.0	6	500	0.465	0.418	0.186	1
NOSB476M006#0500	B	47	6.3	85	3	125	5.6	6	500	0.452	0.406	0.181	1
NOSB476M006#0800	B	47	6.3	85	3	125	5.6	6	800	0.357	0.321	0.143	1
NOSC476M006#0300	C	47	6.3	85	3	125	5.7	6	300	0.663	0.597	0.265	1
NOSC476M006#0500	C	47	6.3	85	3	125	5.7	6	500	0.514	0.462	0.206	1
NOSC686M006#0075	C	68	6.3	85	3	125	8.2	6	75	1.327	1.194	0.531	1
NOSC686M006#0200	C	68	6.3	85	3	125	8.2	6	200	0.812	0.731	0.325	1
NOSC686M006#0500	C	68	6.3	85	3	125	8.2	6	500	0.514	0.462	0.206	1
NOSX686M006#0100	X	68	6.3	85	3	125	8.2	6	100	1.095	0.986	0.438	3
NOSX686M006#0500	X	68	6.3	85	3	125	8.2	6	500	0.490	0.441	0.196	3
NOSY686M006#0100	Y	68	6.3	85	3	125	8.2	6	100	1.225	1.102	0.490	3
NOSY686M006#0500	Y	68	6.3	85	3	125	8.2	6	500	0.548	0.493	0.219	3
NOSC107M006#0150	C	100	6.3	85	3	125	12.0	8	150	0.938	0.844	0.375	1
NOSC107M006#0400	C	100	6.3	85	3	125	12.0	8	400	0.574	0.517	0.230	1
NOSD107M006#0080	D	100	6.3	85	3	125	12.0	6	80	1.500	1.350	0.600	3
NOSD107M006#0100	D	100	6.3	85	3	125	12.0	6	100	1.342	1.207	0.537	3
NOSD107M006#0400	D	100	6.3	85	3	125	12.0	6	400	0.671	0.604	0.268	3
NOSY107M006#0100	Y	100	6.3	85	3	125	12.0	6	100	1.225	1.102	0.490	3
NOSY107M006#0400	Y	100	6.3	85	3	125	12.0	6	400	0.612	0.551	0.245	3
NOSD157M006#0050	D	150	6.3	85	3	125	18.0	6	50	1.897	1.708	0.759	3
NOSD157M006#0070	D	150	6.3	85	3	125	18.0	6	70	1.604	1.443	0.641	3
NOSD157M006#0100	D	150	6.3	85	3	125	18.0	6	100	1.342	1.207	0.537	3
NOSD157M006#0400	D	150	6.3	85	3	125	18.0	6	400	0.671	0.604	0.268	3
NOSY157M006#0100	Y	150	6.3	85	3	125	18.0	6	100	1.225	1.102	0.490	3
NOSY157M006#0400	Y	150	6.3	85	3	125	18.0	6	400	0.612	0.551	0.245	3
NOSD227M006#0045	D	220	6.3	85	3	125	26.4	8	45	2.000	1.800	0.800	3
NOSD227M006#0060	D	220	6.3	85	3	125	26.4	8	60	1.732	1.559	0.693	3
NOSD227M006#0100	D	220	6.3	85	3	125	26.4	8	100	1.342	1.207	0.537	3
NOSD227M006#0400	D	220	6.3	85	3	125	26.4	8	400	0.671	0.604	0.268	3
NOSE227M006#0080	E	220	6.3	85	3	125	26.4	12	80	1.573	1.416	0.629	3
NOSE227M006#0100	E	220	6.3	85	3	125	26.4	12	100	1.407	1.266	0.563	3
NOSE227M006#0400	E	220	6.3	85	3	125	26.4	12	400	0.704	0.633	0.281	3



OxiCap® NOS Low ESR Series

Niobium Oxide Capacitor



RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
NOSE337M006#0080	E	330	6.3	85	3	125	39.6	12	80	1.573	1.416	0.629	3
NOSE337M006#0100	E	330	6.3	85	3	125	39.6	12	100	1.407	1.266	0.563	3
NOSE337M006#0300	E	330	6.3	85	3	125	39.6	12	300	0.812	0.731	0.325	3
NOSV477M006#0075	V	470	6.3	85	3	125	56.4	14	75	2.000	1.800	0.800	3
NOSV477M006#0300	V	470	6.3	85	3	125	56.4	14	300	1.000	0.900	0.400	3
8 Volt @ 85°C													
NOSA106M008#2200	A	10	8	85	4	125	1.6	10	2200	0.202	0.182	0.081	1
NOSB106M008#1000	B	10	8	85	4	125	1.6	10	1000	0.319	0.287	0.128	1
NOSB156M008#1000	B	15	8	85	4	125	2.4	10	1000	0.319	0.287	0.128	1
NOSB226M008#0700	B	22	8	85	4	125	3.5	10	700	0.382	0.344	0.153	1
NOSB226M008#1800	B	22	8	85	4	125	3.5	10	1800	0.238	0.214	0.095	1
NOSC226M008#0500	C	22	8	85	4	125	3.5	10	500	0.514	0.462	0.206	1
NOSC336M008#0500	C	33	8	85	4	125	5.3	10	500	0.514	0.462	0.206	1
NOSC476M008#0400	C	47	8	85	4	125	7.5	10	400	0.574	0.517	0.230	1
NOSC686M008#0500	C	68	8	85	4	125	11.0	16	500	0.514	0.462	0.206	1
NOSD107M008#0400	D	100	8	85	4	125	16.0	16	400	0.671	0.604	0.268	3

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 capacitors allow an ESR movement to 1.25 times catalog limit post mounting.

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

OxiCap® NOS Low ESR Series

Niobium Oxide Capacitor

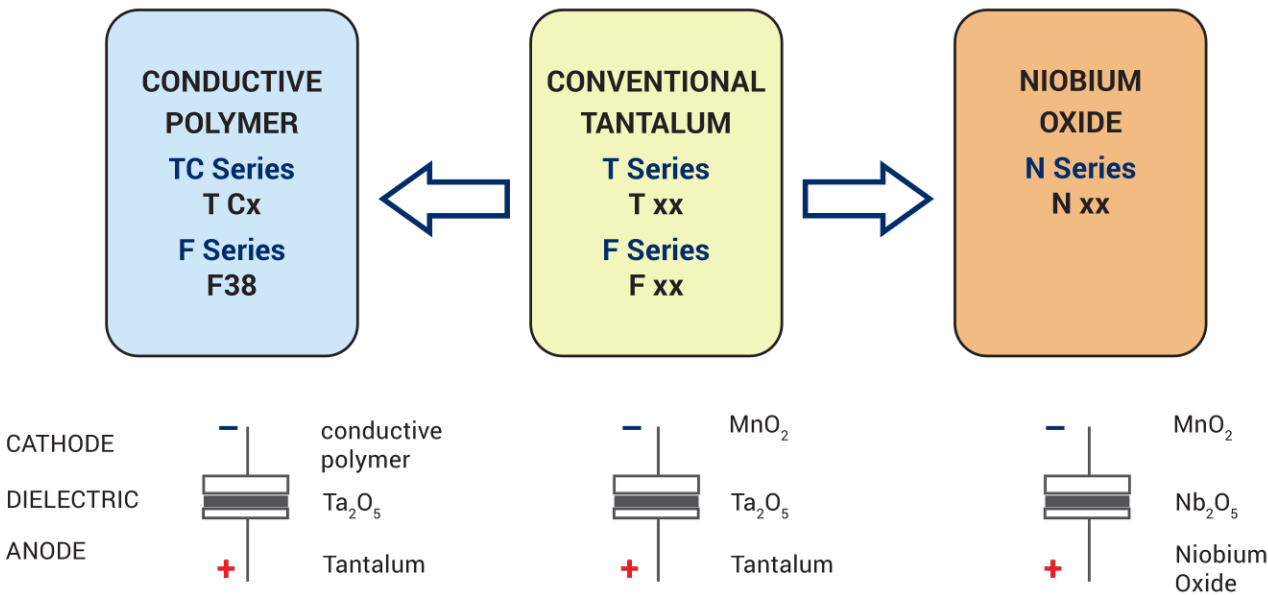


QUALIFICATION TABLE

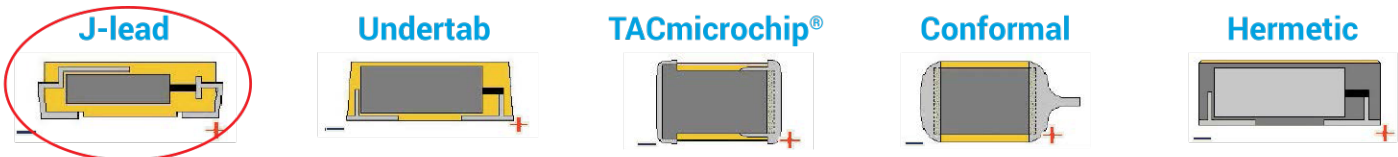
TEST	NOS series (Temperature range -55°C to +125°C)										
	Condition			Characteristics							
Endurance	Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°C for 2000 hours through a circuit impedance of ≤0.1Ω/V. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±10% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Storage Life	Store at 125°C, no voltage applied, for 2000 hours. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±10% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Biased Humidity	Apply rated voltage (Ur) at 85°C, 85% relative humidity for 1000 hours. Stabilize at room temperature and humidity for 1-2 hours before measuring.			Visual examination	no visible damage						
				DCL	2 x initial limit						
				ΔC/C	within ±10% of initial value						
				DF	1.2 x initial limit						
				ESR	1.25 x initial limit						
Temperature Stability	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C	
	1	+20	15								
	2	-55	15	DCL	IL*	n/a	IL*	12 x IL*	15 x IL*	IL*	
	3	+20	15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%	
	4	+85	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*	
	5	+125	15								
	6	+20	15	ESR	125xIL*	25xIL*	125xIL*	125xIL*	125xIL*	125xIL*	
Surge Voltage	Apply 1.3x category voltage (Uc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000Ω			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Mechanical Shock	MIL-STD-202, Method 213, Condition F			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Vibration	MIL-STD-202, Method 204, Condition D			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						

*Initial Limit

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : NIOBIUM OXIDE OxiCap® CAPACITORS

