

OxiCap® NOS Low ESR Series
Niobium Oxide Capacitor



FEATURES

- Low ESR NbO Capacitors
- Non-Burn Safe Technology
- Reliability Level: 0.2%/1000 hrs.
- 100% Surge Current Tested
- 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



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT



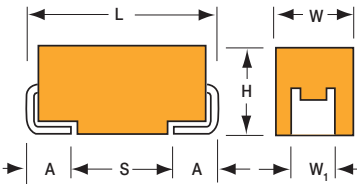
NON-BURN
NON-SMOKE



Elektra Award
2005

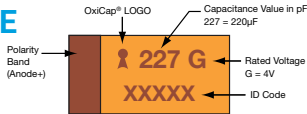
APPLICATIONS

- Medium Power DC/DC for
Transportation and Automotive Industry



MARKING

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



CASE DIMENSIONS:

millimeters (inches)

Table with 9 columns: 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. Rows A through Y.

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

HOW TO ORDER

Ordering code breakdown: NOS (Type), D (Case Size), 107 (Capacitance Code), M (Tolerance), 006 (Rated DC Voltage), R (Packaging), 0100 (ESR in mΩ), - (Additional characters).

TECHNICAL SPECIFICATIONS

Table with 2 columns: Technical Data and specifications. Rows include Capacitance Range, Capacitance Tolerance, Leakage Current DCL, Rated Voltage DC, Category Voltage, Surge Voltage, Temperature Range, Reliability.

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				
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

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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	
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 $\leq 0.1\Omega/V$. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage					
				DCL	initial limit					
				$\Delta C/C$	within $\pm 10\%$ 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					
				$\Delta C/C$	within $\pm 10\%$ 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					
				$\Delta C/C$	within $\pm 10\%$ 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	$\Delta C/C$	n/a	+0/-10%	$\pm 5\%$	+10/-0%	+12/-0%	$\pm 5\%$
	4	+85	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*
	5	+125	15							
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 1000 Ω			Visual examination	no visible damage					
				DCL	initial limit					
				$\Delta C/C$	within $\pm 5\%$ 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					
				$\Delta C/C$	within $\pm 5\%$ 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					
				$\Delta C/C$	within $\pm 5\%$ of initial value					
				DF	initial limit					
				ESR	1.25 x initial limit					

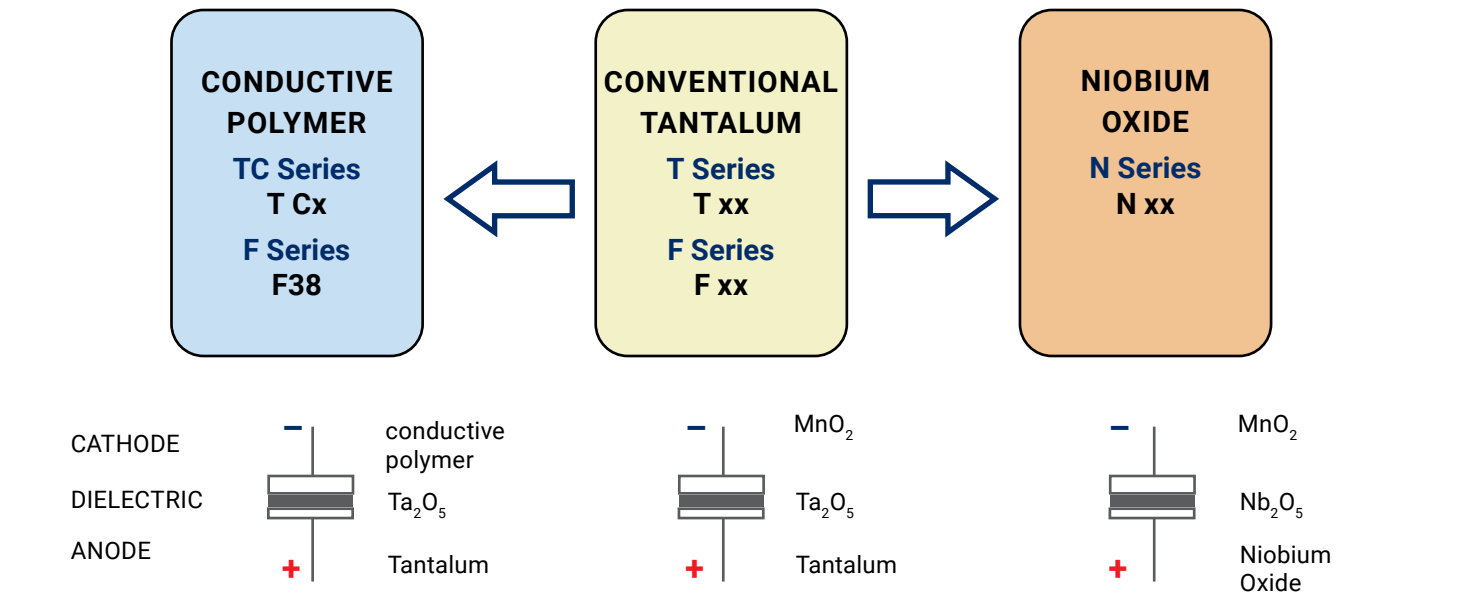
*Initial Limit

OxiCap® NOS Low ESR Series

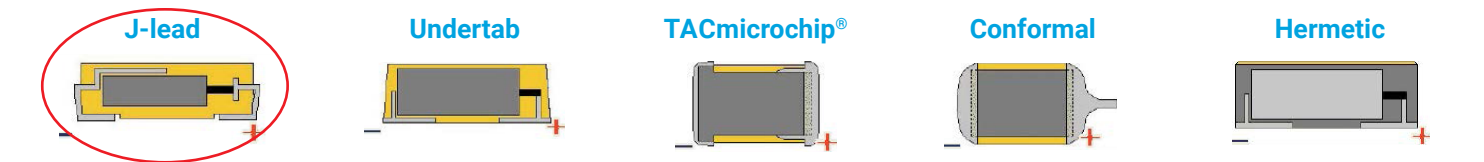
Niobium Oxide Capacitor



AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : NIOBIUM OXIDE OxiCap® CAPACITORS

