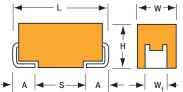
Niobium Oxide Capacitor







FEATURES

- Low ESR Nb0 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

APPLICATIONS

Medium Power DC/DC for Transportation and Automotive Industry



LEAD-FREE COMPATIBLE COMPONENT





Elektra Award 2005



CASE DIMENSIONS:

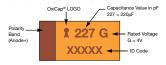
millimeters (inches)

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.
Α	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)
В	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)
С	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)
Х	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)
Υ	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)

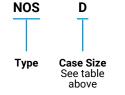
W, dimension applies to the termination width for A dimensional area only.

MARKING

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



HOW TO ORDER





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



M = +20%

006

Rated DC Voltage 001 = 1.8 Vdc002 = 2.5 Vdc004 = 4Vdc 006 = 6.3Vdc

008 = 8Vdc

R

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



ESR in $m\boldsymbol{\Omega}$

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 techr	nical data	relate to	an ambie	nt tempe	erature 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	r 1000 ho	urs at 85°	C, V _R , 0.1	Ω/V serie	es impedance, 60% confidence level
		Meets re	equiremer	nts of AEC	C-Q200		





CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capac	citance		Rat	ted Voltage DC (V _R) to 8		
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. KYOCERA AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.

040620

Niobium Oxide Capacitor



RATINGS & PART NUMBER REFERENCE

Part Number	Case	Capacitance	Rated Voltage	Rated Temperature	Category Voltage	Category Temperature	DCL Max.	DF Max.	ESR Max.	100kH	z RMS Cui	rent (A)	MSL
r ai t Nullibei	Size	(μ F)	(V)	(°C)	(V)	(°C)	(μA)	(%)	@ 100kHz (mΩ)	25°C	85°C	125°C	IVIS
						olt @ 85°C							
NOSB107M001#0350	В	100	1.8	85	0.9	125	3.6	6	350	0.540	0.486	0.216	1
NOSB107M001#1400 NOSW107M001#0150	B W	100 100	1.8	85 85	0.9	125 125	3.6	6	1400 150	0.270 0.849	0.243 0.764	0.108	1
NOSW107M001#0400	W	100	1.8	85	0.9	125	3.6	6	400	0.520	0.764	0.339	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	С	220	1.8	85	0.9	125	8.0	8	400	0.574	0.517	0.230	1
NOSX227M001#0100	Х	220	1.8	85	0.9	125	8.0	8	100	1.095	0.986	0.438	3
NOSX227M001#0400	Х	220	1.8	85	0.9	125	8.0	8	400	0.548	0.493	0.219	3
NOSY337M001#0100	Υ	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	
NOSY477M001#0100	Y	470	1.8	85	0.9	125	17.0	8	100	1.225	1.102	0.490	;
NOSY477M001#0300	Y	470	1.8	85	0.9	125	17.0	8	300	0.707	0.636	0.283	:
						olt @ 85°C							_
NOSA226M002#0900	A	22	2.5	85	1.3	125	1.1	6	900	0.316	0.285	0.126	
NOSA226M002#1900	A	22	2.5	85	1.3	125	1.1	6	1900	0.218	0.196	0.087	
NOSB336M002#1700	B	33 47	2.5	85 85	1.3 1.3	125 125	1.7 2.4	6	1700 500	0.245 0.452	0.220	0.098	
NOSB476M002#0500 NOSB476M002#1600	В	47	2.5	85 85	1.3	125	2.4	6	1600	0.452	0.406	0.181	
NOSC686M002#0200	C	68	2.5	85	1.3	125	3.4	6	200	0.252	0.227	0.101	
NOSC686M002#0500	C	68	2.5	85	1.3	125	3.4	6	500	0.514	0.751	0.323	
NOSW686M002#0150	W	68	2.5	85	1.3	125	3.4	6	150	0.849	0.764	0.339	
NOSW686M002#0400	W	68	2.5	85	1.3	125	3.4	6	400	0.520	0.468	0.208	
NOSC107M002#0150	С	100	2.5	85	1.3	125	5.0	6	150	0.938	0.844	0.375	
NOSC107M002#0400	С	100	2.5	85	1.3	125	5.0	6	400	0.574	0.517	0.230	
NOSC157M002#0065	С	150	2.5	85	1.3	125	7.5	6	65	1.425	1.283	0.570	
NOSC157M002#0150	С	150	2.5	85	1.3	125	7.5	6	150	0.938	0.844	0.375	
NOSC157M002#0400	С	150	2.5	85	1.3	125	7.5	6	400	0.574	0.517	0.230	
NOSX157M002#0100	X	150	2.5	85	1.3	125	7.5	6	100	1.095	0.986	0.438	
NOSX157M002#0400	X	150	2.5	85	1.3	125	7.5	6	400	0.548	0.493	0.219	
NOSC227M002#0080 NOSC227M002#0125	C	220 220	2.5 2.5	85 85	1.3 1.3	125 125	11.0 11.0	8	80 125	1.285 1.028	1.156 0.925	0.514 0.411	
NOSC227M002#0400	C	220	2.5	85	1.3	125	11.0	8	400	0.574	0.923	0.230	
NOSY227M002#0400	Y	220	2.5	85	1.3	125	11.0	8	100	1.225	1.102	0.490	
NOSY227M002#0400	Y	220	2.5	85	1.3	125	11.0	8	400	0.612	0.551	0.245	
NOSD337M002#0035	D	330	2.5	85	1.3	125	16.5	10	35	2.268	2.041	0.907	
NOSD337M002#0050	D	330	2.5	85	1.3	125	16.5	10	50	1.897	1.708	0.759	
NOSD337M002#0100	D	330	2.5	85	1.3	125	16.5	10	100	1.342	1.207	0.537	
NOSD337M002#0300	D	330	2.5	85	1.3	125	16.5	10	300	0.775	0.697	0.310	
NOSY337M002#0100	Υ	330	2.5	85	1.3	125	16.5	10	100	1.225	1.102	0.490	
NOSY337M002#0300	Y	330	2.5	85	1.3	125	16.5	10	300	0.707	0.636	0.283	
NOSD477M002#0035	D	470	2.5	85	1.3	125	23.5	12	35	2.268	2.041	0.907	
NOSD477M002#0055	D	470	2.5	85	1.3	125	23.5	12	55	1.809	1.628	0.724	
NOSD477M002#0100 NOSD477M002#0300	D	470	2.5	85	1.3	125	23.5	12 12	100	1.342	1.207 0.697	0.537	
NOSD477M002#0300 NOSE477M002#0100	D E	470 470	2.5 2.5	85 85	1.3 1.3	125 125	23.5 23.5	12	300 100	0.775 1.407	1.266	0.310 0.563	_
NOSE477M002#0100 NOSE477M002#0300	E	470	2.5	85	1.3	125	23.5	10	300	0.812	0.731	0.325	
NOSE687M002#0060	E	680	2.5	85	1.3	125	34.0	14	60	1.817	1.635	0.323	
NOSE687M002#0300	E	680	2.5	85	1.3	125	34.0	14	300	0.812	0.731	0.325	
NOSV108M002#0050	V	1000	2.5	85	1.3	125	50.0	16	50	2.449	2.205	0.980	
NOSV108M002#0300	V	1000	2.5	85	1.3	125	50.0	16	300	1.000	0.900	0.400	
					4 Vo	t @ 85°C							
NOSA156M004#1500	Α	15	4	85	2	125	1.2	6	1500	0.245	0.220	0.098	
NOSA156M004#2000	А	15	4	85	2	125	1.2	6	2000	0.212	0.191	0.085	
NOSB226M004#0600	В	22	4	85	2	125	1.8	6	600	0.412	0.371	0.165	
NOSB226M004#1900	В	22	4	85	2	125	1.8	6	1900	0.232	0.209	0.093	
NOSB336M004#0600	В	33	4	85	2	125	2.6	6	600	0.412	0.371	0.165	
NOSB336M004#1700	В	33	4	85	2	125	2.6	6	1700	0.245	0.220	0.098	
NOSB476M004#0500 NOSB476M004#1600	B	47 47	4	85 85	2	125 125	3.8	6	500 1600	0.452 0.252	0.406 0.227	0.181	
NOSC476M004#1600 NOSC476M004#0300	С	47	4	85	2	125	3.8	6	300	0.252	0.227	0.101	
NOSC476M004#0300 NOSC476M004#0500	C	47	4	85	2	125	3.8	6	500	0.514	0.597	0.265	
NOSW476M004#0150	W	47	4	85	2	125	3.8	6	150	0.849	0.462	0.206	
NOSW476M004#0130	W	47	4	85	2	125	3.8	6	500	0.465	0.764	0.339	
NOSC686M004#0200	C	68	4	85	2	125	5.4	6	200	0.403	0.731	0.100	
NOSC686M004#0500	C	68	4	85	2	125	5.4	6	500	0.514	0.462	0.206	
NOSC107M004#0070	C	100	4	85	2	125	8.0	6	70	1.373	1.236	0.549	
NOSC107M004#0150	С	100	4	85	2	125	8.0	6	150	0.938	0.844	0.375	
NOSC107M004#0400	С	100	4	85	2	125	8.0	6	400	0.574	0.517	0.230	
NOSX107M004#0100	Х	100	4	85	2	125	8.0	6	100	1.095	0.986	0.438	

Niobium Oxide Capacitor

KYOCERA /AV/X°

RATINGS & PART NUMBER REFERENCE

Part Number	Case	Capacitance	Rated	Rated	Category	Voltage Temperature May May	-		ESR Max.	100kHz RMS Current (A)			MSL
Part Number	Size	(μ F)	Voltage (V)	Temperature (°C)			@ 100kHz (mΩ)	25°C	85°C	125°C	IVIOL		
NOSX107M004#0400	Х	100	4	85	2	125	8.0	6	400	0.548	0.493	0.219	3
NOSC157M004#0090	С	150	4	85	2	125	12.0	6	90	1.211	1.090	0.484	1
NOSC157M004#0150	С	150	4	85	2	125	12.0	6	150	0.938	0.844	0.375	1
NOSC157M004#0400 NOSY157M004#0100	C	150 150	4	85	2	125 125	12.0 12.0	6	400 100	0.574	0.517	0.230 0.490	3
NOSY157M004#0100 NOSY157M004#0400	Y	150	4	85 85	2	125	12.0	6	400	1.225 0.612	1.102 0.551	0.490	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 NOSD337M004#0035	Y D	220 330	4	85 85	2	125 125	17.6 26.4	10 8	400 35	0.612 2.268	0.551 2.041	0.245 0.907	3
NOSD337M004#0055	D	330	4	85	2	125	26.4	8	55	1.809	1.628	0.907	3
NOSD337M004#0033 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	Е	330	4	85	2	125	26.4	8	100	1.407	1.266	0.563	3
NOSY337M004#0150	Υ	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 NOSE477M004#0075	D E	470 470	4	85 85	2 2	125 125	37.6 37.6	12 12	300 75	0.775 1.625	0.697 1.462	0.310 0.650	3
NOSE477M004#0075 NOSE477M004#0100	E	470	4	85 85	2	125	37.6	12	100	1.625	1.462	0.563	3
NOSE477M004#0100 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 Vo	lt @ 85°C							
NOSA106M006#0800	Α	10	6.3	85	3	125	1.2	6	800	0.335	0.302	0.134	1
NOSA106M006#1000	Α	10	6.3	85	3	125	1.2	6	1000	0.300	0.270	0.120	1
NOSA106M006#2000	Α	10	6.3	85	3	125	1.2	6	2000	0.212	0.191	0.085	1
NOSA106M006#2200 NOSB156M006#0600	A B	10 15	6.3	85 85	3	125 125	1.2	6	2200 600	0.202 0.412	0.182	0.081 0.165	1
NOSB156M006#2000	В	15	6.3	85	3	125	1.8	6	2000	0.412	0.203	0.103	1
NOSB226M006#0600	В	22	6.3	85	3	125	2.6	6	600	0.412	0.203	0.090	1
NOSB226M006#1900	В	22	6.3	85	3	125	2.6	6	1900	0.232	0.209	0.093	1
NOSB336M006#0600	В	33	6.3	85	3	125	4.0	6	600	0.412	0.371	0.165	1
NOSB336M006#1700	В	33	6.3	85	3	125	4.0	6	1700	0.245	0.220	0.098	1
NOSC336M006#0500	С	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 NOSB476M006#0800	B	47 47	6.3	85 85	3	125 125	5.6 5.6	6	500 800	0.452 0.357	0.406 0.321	0.181 0.143	1
NOSC476M006#0300	C	47	6.3	85	3	125	5.7	6	300	0.663	0.521	0.143	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	С	68	6.3	85	3	125	8.2	6	200	0.812	0.731	0.325	1
NOSC686M006#0500	С	68	6.3	85	3	125	8.2	6	500	0.514	0.462	0.206	1
NOSX686M006#0100	Х	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 NOSC107M006#0150	C	68 100	6.3	85 85	3	125 125	8.2 12.0	6 8	500 150	0.548 0.938	0.493 0.844	0.219 0.375	3
NOSC107M006#0150	C	100	6.3	85	3	125	12.0	8	400	0.938	0.844	0.375	1
NOSD107M006#0480	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	Υ	100	6.3	85	3	125	12.0	6	100	1.225	1.102	0.490	3
NOSY107M006#0400	Υ	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 NOSD157M006#0400	D D	150 150	6.3	85 85	3	125 125	18.0 18.0	6	100 400	1.342 0.671	1.207 0.604	0.537 0.268	3
NOSY157M006#0400	Y	150	6.3	85	3	125	18.0	6	100	1.225	1.102	0.490	3
NOSY157M006#0100	Y	150	6.3	85	3	125	18.0	6	400	0.612	0.551	0.490	3
NOSD227M006#0465	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	Е	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	Е	220	6.3	85	3	125	26.4	12	400	0.704	0.633	0.281	3





RATINGS & PART NUMBER REFERENCE

Part Number	Case	Capacitance	Rated Voltage	Rated	Category Voltage	Category	DCL Max.		ESR Max.	100kH	MSL		
	Size	(μF)	(V)	Temperature (°C)	(V)	Temperature (°C)	(μA)	(%)	@ 100kHz (mΩ)	25°C	85°C	125°C	IVISL
NOSE337M006#0080	Е	330	6.3	85	3	125	39.6	12	80	1.573	1.416	0.629	3
NOSE337M006#0100	Е	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 Vol	t @ 85°C							
NOSA106M008#2200	Α	10	8	85	4	125	1.6	10	2200	0.202	0.182	0.081	1
NOSB106M008#1000	В	10	8	85	4	125	1.6	10	1000	0.319	0.287	0.128	1
NOSB156M008#1000	В	15	8	85	4	125	2.4	10	1000	0.319	0.287	0.128	1
NOSB226M008#0700	В	22	8	85	4	125	3.5	10	700	0.382	0.344	0.153	1
NOSB226M008#1800	В	22	8	85	4	125	3.5	10	1800	0.238	0.214	0.095	1
NOSC226M008#0500	С	22	8	85	4	125	3.5	10	500	0.514	0.462	0.206	1
NOSC336M008#0500	С	33	8	85	4	125	5.3	10	500	0.514	0.462	0.206	1
NOSC476M008#0400	С	47	8	85	4	125	7.5	10	400	0.574	0.517	0.230	1
NOSC686M008#0500	С	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. For typical weight and composition see page 259.

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

Niobium Oxide Capacitor



QUALIFICATION TABLE

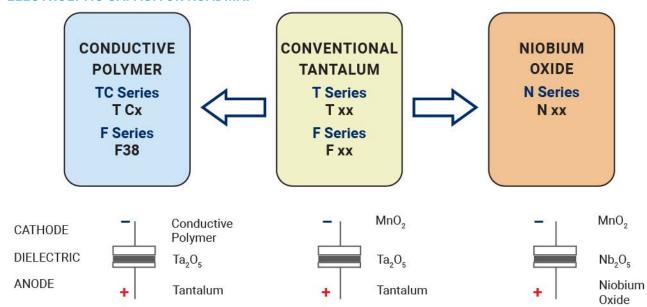
TEST			NOS series	(Temperature range -55°C to +125°C)									
1531		Condition			C	haracter	istics						
				Visual examination	ion no visible damage								
		ge (Ur) at 85°C and		DCL	initial limit								
Endurance		5°C for 2000 hours 1Ω/V. Stabilize at ro		ΔC/C	within ±10% of initial value								
	for 1-2 hours befo		om temperature	DF	initial limit								
	Tor 1 2 nouro bero	ne meddding.		ESR	1.25 x ini	tial limit							
				Visual examination	no visible	damage							
	Store at 125°C. no	voltage applied, fo	or 2000 hours.	DCL	initial lim	it							
Storage Life		temperature for 1-2		ΔC/C	within ±1	0% of initia	l value						
	measuring.			DF	initial lim	it							
				ESR	1.25 x ini	tial limit							
				Visual examination	no visibl	e damage							
Biased Humidity	Apply rated voltage	ge (Ur) at 85°C, 85%	relative humidity	DCL	2 x initia	l limit							
		tabilize at room tem		ΔC/C	within ±10% of initial value								
	humidity for 1-2 h	ours before measur	ring.	DF	1.2 x initial limit								
				ESR	1.25 x initial limit								
	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C			
	1	+20	15	DCL	IL*	n/a	IL*	12 x IL*	15 x IL*	IL*			
Temperature	3	-55 +20	15 15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%			
Stability	4	+85	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2xIL*	IL*			
	5	+125	15							1			
	6	+20	15	ESR	1.25xIL*	25xL*	1.25xIL*	1.25xIL*	1.25xIL*	125xIL*			
	Apply 1 3v catego	ory voltage (Uc) at 1	25°C for 1000	Visual examination	_	damage							
		6 min (30 sec char		DCL	initial lim								
Surge Voltage		h a charge / discha		ΔC/C		% of initial	value						
	1000Ω			DF		initial limit							
				ESR	1.25 x initial limit								
				Visual examination		no visible damage							
Mechanical				DCL	initial lim								
Shock	MIL-STD-202, Met	thod 213, Condition	F	ΔC/C	within ±	5% of initia	al value						
OHOOK				DF	initial lim	nit							
				ESR	1.25 x initial limit								
				Visual examination	no visibl	e damage							
				DCL	initial lim	nit							
Vibration	MIL-STD-202, Met	thod 204, Condition	D	ΔC/C	within ±	5% of initia	al value						
				DF	initial lim	nit							
				ESR	1.25 x in	itial limit							

^{*}Initial Limit

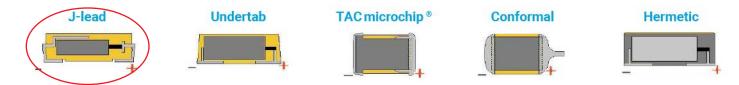
Niobium Oxide Capacitor



SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP: NIOBIUM OXIDE OxiCap® CAPACITORS

