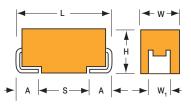
OxiCap® NOM Low ESR Multianodes

Niobium Oxide Capacitor







FEATURES

- Multi-anode Construction
- Super Low ESR
- 100% Surge Current Tested
- Non-Burn Safe Technology
- CV Range: 220-680µF / 1.8-6.3V
- IBM Global Approval Received in 2004
- Elektra Award Received in 2005

APPLICATIONS

 High Power Low Voltage Industrial Power Supplies



LEAD-FREE COMPATIBLE COMPONENT







Elektra Award 2005



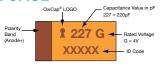


NOM MULTIANODE CONSTRUCTION

millimeters (inches)

MARKING

E CASE



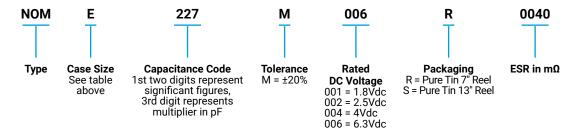
CASE DIMENSIONS:

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.
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)

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

HOW TO ORDER

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TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C is not stated						
Capacitance Range:	220 µF to 680 µF						
Capacitance Tolerance:							
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		
Surge Voltage (V _s)	≤ +125°C:	1.2	1.7	2.6	4		
Temperature Range:		-55°C to	+125°C				
Reliability:		0.2% per	[.] 1000 ho	urs at 85°	°C, V _R , 0.1	Ω/V series impedance, 60% confidence level	
		Meets re	equiremer	nts of AE	C-Q200		



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



Niobium Oxide Capacitor

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capac	itance	Rated Voltage DC (V_R) to 85°C							
μF Code		1.8V (x)	2.5V (e)	4.0V (G)	6.3V (J)				
220	227				E(40)				
330	337			E(35)	E(23,35)				
470	477		E(30)	E(23,30)					
680	687	E(23)	E(23)						

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.

RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated Voltage		Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
Part No.	Size	(µF)	(V)	Temperature (°C)						25°C	85°C	125°C	IVISL
1.8 Volt @ 85°C													
NOME687M001#0023	E	680	1.8	85	0.9	125	24.5	6	23	3.753	3.378	1.501	3
2.5 Volt @ 85°C													
NOME477M002#0030	E	470	2.5	85	1.3	125	23.5	10	30	3.286	2.958	1.315	3
NOME687M002#0023	E	680	2.5	85	1.3	125	34	6	23	3.753	3.378	1.501	3
					4 Volt @	D 85°C							
NOME337M004#0035	E	330	4	85	2	125	26.4	8	35	3.043	2.738	1.217	3
NOME477M004#0023	E	470	4	85	2	125	37.6	6	23	3.753	3.378	1.501	3
NOME477M004#0030	E	470	4	85	2	125	37.6	6	30	3.286	2.958	1.315	3
					6.3 Volt	@ 85°C							
NOME227M006#0040	E	220	6.3	85	3	125	26.4	12	40	2.846	2.561	1.138	3
NOME337M006#0023	E	330	6.3	85	3	125	39.6	6	23	3.753	3.378	1.501	3
NOME337M006#0035	E	330	6.3	85	3	125	39.6	6	35	3.043	2.738	1.217	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.

ESR allowed to move up to 125 times catalog limit post mounting.

For typical weight and composition see page 274.

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



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OxiCap® NOM Low ESR Multianodes

Niobium Oxide Capacitor



QUALIFICATION TABLE

TEST	NOS series (Temperature range -55°C to +125°C)											
1531		Conditio	n	Characteristics								
				Visual examination	no visibl	e damage						
		ed voltage (Ur) at 85°C		DCL	initial lim	initial limit						
Endurance		ic) at 125°C for 2000 f e of ≤0.1Ω/V. Stabilize	nours through a circuit	ΔC/C	within ±10% of initial value							
		urs before measuring.		DF	initial limit							
		-		ESR	1.25 x in	1.25 x initial limit						
				Visual examination	no visibl	no visible damage						
	Store at 1	25°C, no voltage appli	ed. for 2000 hours.	DCL	initial lim	initial limit						
Storage Life		at room temperature fo		ΔC/C	within ±10% of initial value							
	measuring	g.		DF	initial limit							
				ESR	1.25 x initial limit							
	İ			Visual examination	no visib	no visible damage						
	Store at 6	5°C and 95% relative h	umidity for 500 hours,	DCL	1.5 x ini	1.5 x initial limit						
Humidity			e at room temperature	ΔC/C	within ±10% of initial value							
-	and humio	dity for 1-2 hours befor	re measuring.	DF	1.2 x initial limit							
				ESR	1.25 x ir	1.25 x initial limit						
				Visual examination	no visible damage							
	Apply rate	nd voltage (LIr) at 85°C	, 85% relative humidity	DCL	2 x initia	2 x initial limit						
Biased Humidity		nours. Stabilize at room		ΔC/C	within ±10% of initial value							
•	humidity f	for 1-2 hours before m	DF	1.2 x ini	1.2 x initial limit							
				ESR	1.25 x ir	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	2	-55 +20	15 15		n/a	+0/-10%	±5%	+10/-0%	+12/-0%			
Stability	4	+20	15	DF	II/a		<u> </u>			L*		
	5	+125	15			1.5 x IL*		1.5 x IL*	2 x IL*			
	6	+20	15	ESR	1.25 x IL*	2.5 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL		
				Visual examination	no visible damage							
0		x category voltage (Uc		DCL	initial lim	initial limit						
Surge Voltage		duration 6 min (30 sec) through a charge / d		ΔC/C	within ±	within ±5% of initial value						
voltage	of 1000Ω) through a charge / a	ischarge resistance	DF	initial lim	initial limit						
				ESR	1.25 x initial limit							
	İ			Visual examination	no visible damage							
				DCL	initial lir	initial limit						
Mechanical	MIL-STD-2	202, Method 213, Cond	dition F	ΔC/C	within ±	within ±5% of initial value						
Shock				DF	initial lir	initial limit						
				ESR	1.25 x ir	1.25 x initial limit						
				Visual examination	no visib	le damage	!					
				DCL		initial limit						
Vibration	MIL-STD-2	202, Method 204, Cond	dition D	ΔC/C	within ±	within ±5% of initial value						
		. ,		DF	initial lir							
				ESR	1.25 x initial limit							

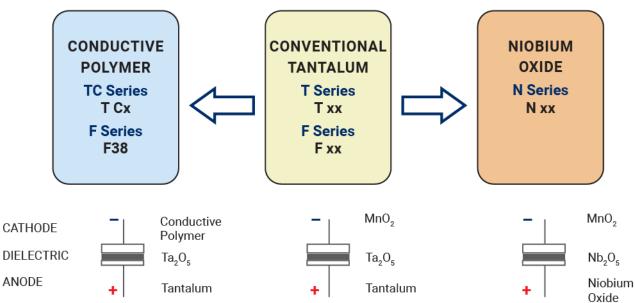
*Initial Limit



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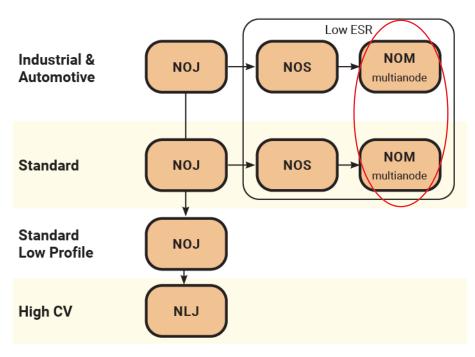
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : NIOBIUM OXIDE OxiCap® CAPACITORS





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 NOME477M004R0030
 NOME687M001R0023
 NOME687M002R0023

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