OxiCap® NOM Low ESR Multianodes

Niobium Oxide Capacitor







- 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







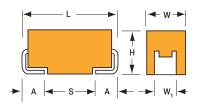
NON-BURN NON-SMOKE



Elektra Award 2005

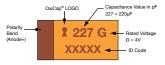
NOM MULTIANODE

CONSTRUCTION



MARKING

E CASE

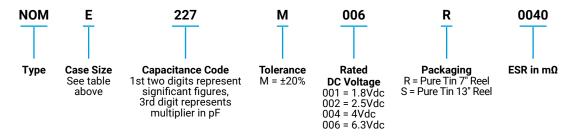


CASE DIMENSIONS:

Code		EIA Code	EIA Metric	L±0.20 (0.008)		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



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:		±20%								
Leakage Current DCL:	0.02CV									
Rated Voltage DC (V_R)	≤ +85°C:	1.8	2.5	4	6.3					
Category Voltage (V _c)	≤ +125ºC:	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 hours at 85°C, V_{R} , 0.1 Ω/V series impedance, 60% confiden								

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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. KYOCERA AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.

RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance	Rated	e Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			Mel
Fait Number		(µF)	(V)							25°C	85°C	125°C	IVIGE
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
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
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 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.

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QUALIFICATION TABLE

тгот	NOM series (Temperature range -55°C to +125°C)											
TEST		Conditio	n	Characteristics								
				Visual examination	no visibl	e damage						
	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			DCL	initial lim	initial limit						
Endurance				ΔC/C	within ±10% of initial value							
		urs before measuring.	DF	initial lim	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	Stabilize a	at room temperature fo	or 1-2 hours before	ΔC/C	within ±	within ±10% of initial value						
	measuring	g.		DF	initial limit							
				ESR	1.25 x in	1.25 x initial limit						
				Visual examination	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	Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature			ΔC/C	within ±10% of initial value							
	and humi	dity for 1-2 hours befor	e measuring.	DF	1.2 x ini	1.2 x initial limit						
				ESR	1.25 x ir	1.25 x initial limit						
				Visual examination	no visible damage							
	Apply rote	d voltage (Ur) at 9500	95% rolativo humiditu	DCL		2 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.			ΔC/C	within ±	within ±10% of initial value						
Diabea Haimarty				DF		tial 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	120 0 IL*	12 x IL*	15xIL*	120 0		
Temperature	2	-55	15									
Stability	3 4	+20 +85	15 15		n/a	+0/-10%	±5%	+10/-0%	+12/-0%			
	5	+125	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2xIL*	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							
•		x category voltage (Uc)		DCL	initial lim	initial limit						
Surge		duration 6 min (30 sec) through a charge / di		ΔC/C	within ±	within ±5% of initial value						
Voltage	1000Ω	i i i i ougi a charge / ui	scharge resistance of	DF	initial lim	initial limit						
				ESR	1.25 x in	1.25 x initial limit						
				Visual examination	no visible damage							
				DCL	initial lir	initial limit						
Mechanical	MIL-STD-2	202, Method 213, Conc	lition 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	-	le damage						
				DCL		initial limit						
Vibration	MIL-STD-2	202. Method 204. Conc	lition D			within ±5% of initial value						
Tistation	MIL-STD-202, Method 204, Condition D			DF	-							
			ESR	1.25 x initial limit								

*Initial Limit

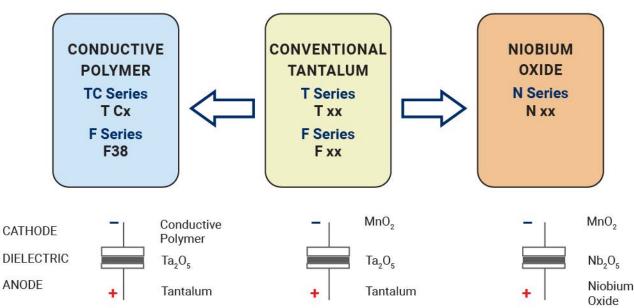
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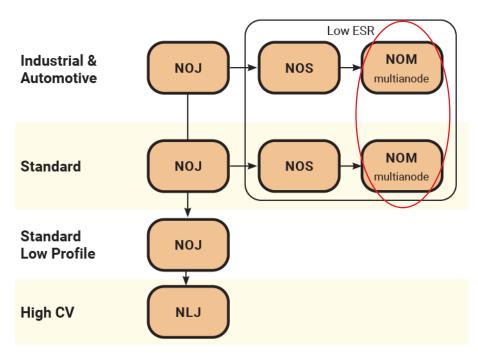
SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : NIOBIUM OXIDE OxiCap® CAPACITORS



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