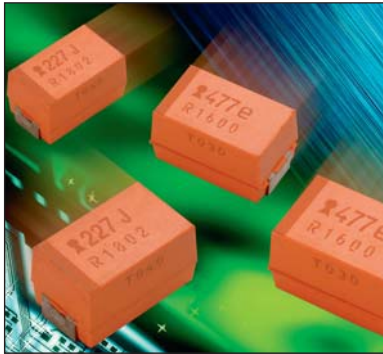


OxiCap[®] NOM Low ESR Multianodes



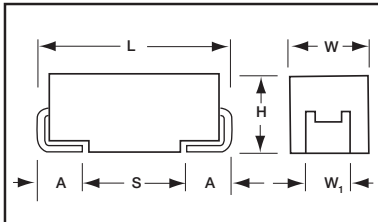
Niobium Oxide Capacitor



- Multi-anode construction
- Super low ESR
- Non-burn safe technology
- CV range: 220-680 μ F / 1.8-6.3V
- IBM global approval received in 2004
- Electra award received in 2005



Electra Award
2005



For part marking see page 132

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L \pm 0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W ₁ \pm 0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
E	2717	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

NOM

Type

E

Case Size
See table above

227

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

M

Tolerance
M = \pm 20%

006

Rated DC Voltage
001 = 1.8Vdc
002 = 2.5Vdc
004 = 4Vdc
006 = 6.3Vdc
010 = 10Vdc

R

Packaging
R = Lead Free 7" Reel
S = Lead Free 13" Reel

0040

ESR in m Ω

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C is not stated						
Capacitance Range:	150 μ F to 680 μ F						
Capacitance Tolerance:	\pm 20%						
Leakage Current DCL:	0.02CV						
Rated Voltage DC (V _R)	\leq +85°C:	1.8	2.5	4	6.3	10	
Category Voltage (V _C)	\leq +125°C:	0.9	1.3	2	3	5	
Surge Voltage (V _S)	\leq +85°C:	2.3	3.3	5.2	8	13	
Surge Voltage (V _S)	\leq +125°C:	1.2	1.7	2.6	4	6.6	
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% confidence level Meets requirements of AEC-Q200						

OxiCap® NOM Low ESR Multianodes



Niobium Oxide Capacitor

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R) to 85°C / 0.66 DC to 105°C / 0.5 DC to 125°C				
µF	Code	1.8V (x)	2.5V (e)	4.0V (G)	6.3V (J)	10V (A)
150	157					D(50)*
220	227				E(40)	
330	337			E(35)	E(23,35)	
470	477		E(30)	D(40)* / E(23,30)		
680	687	E(23)	E(23)			
1000	108					

*Codes under development - subject to change

Available Ratings, (ESR ratings in mOhms in brackets)

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



LEAD-FREE

LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT



NON-BURN
NON-SMOKE

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage(V)	DCL (µA)	DF %	ESR Max. (mΩ)	100kHz Ripple Current Ratings (A)			100kHz Ripple Voltage Ratings (V)		
							25°C	85°C	125°C	25°C	85°C	125°C
1.8 Volt @ 85°C (1.2 Volt @ 105°C / 0.9 Volt @ 125°C)												
NOME687M001#0023	E	680	1.8	24.5	6	23	3.753	3.378	1.501	0.086	0.078	0.035
2.5 Volt @ 85°C (1.7 Volt @ 105°C / 1.3 Volt @ 125°C)												
NOME477M002#0030	E	470	2.5	23.5	10	30	3.286	2.958	1.315	0.099	0.089	0.039
NOME687M002#0023	E	680	2.5	34	6	23	3.753	3.378	1.501	0.086	0.078	0.035
4 Volt @ 85°C (2.6 Volt @ 105°C / 2 Volt @ 125°C)												
NOME337M004#0035	E	330	4	26.4	8	35	3.043	2.738	1.217	0.106	0.096	0.043
NOME477M004#0023	E	470	4	37.6	6	23	3.753	3.378	1.501	0.086	0.078	0.035
NOME477M004#0030	E	470	4	37.6	6	30	3.286	2.958	1.315	0.099	0.089	0.039
6.3 Volt @ 85°C (4 Volt @ 105°C / 3 Volt @ 125°C)												
NOME227M006#0040	E	220	6.3	26.4	12	40	2.846	2.561	1.138	0.114	0.102	0.046
NOME337M006#0023	E	330	6.3	39.6	6	23	3.753	3.378	1.501	0.086	0.078	0.035
NOME337M006#0035	E	330	6.3	39.6	6	35	3.043	2.738	1.217	0.106	0.096	0.043

- Insert R for 7" reel or S for 13" reel

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

MSL level: See page 123 (6. Moisture Sensitivity Level) or packaging and reel label.

ESR allowed to move up to 1.25 times catalog limit post mounting.

Note: AVX reserves the rights to supply higher voltage rating in the same case size to the same reliability standards.