

# OxiCap® – NOS Low ESR NbO Capacitor



## PRODUCT SPECIFICATIONS :

Nominal Capacitance @ 120Hz	220 $\mu$ F
Capacitance Tolerance (*)	M = $\pm$ 20%
Rated Voltage DC (V <sub>R</sub> )	$\leq$ 85°C 4 V
Category Voltage DC (V <sub>C</sub> )	< 105°C 2.7 V
	< 125°C 2 V
Surge Voltage (V <sub>S</sub> )	$\leq$ 85°C 5.2 V
	< 105°C 3.4 V
	< 125°C 2.6 V

Temperature Range -55°C to +125°C

Direct Leakage Current max. @ V<sub>R</sub> 17.6  $\mu$ A

Dissipation Factor max. @ 120Hz 8 %

ESR max. @ 100kHz 0.1 Ohm

Typical weight (D case) 265 mg

Moisture sensitivity level: Meets MSL 3

Reflow specification: meets J-STD-020 standard

Meets requirements of AEC-Q200

100% surge current tested

All technical data relates to an ambient temperature of +25°C, Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V.

DCL is measured at rated voltage after 5 minutes

ESR allowed to move up to 1.25 times catalogue limit post mounting

KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards



Elektra  
Award  
2005

RMS value of Ripple Current (mA) @100kHz			RMS value of Ripple Voltage (mV) @100kHz		
25°C	85°C	125°C	25°C	85°C	125°C
1342	1207	537	134	121	54

## HOW TO ORDER:

NOS

Type

D

Case code

227

Capacitance  
Value

M

Cap.  
Tolerance

004

Rated  
DC

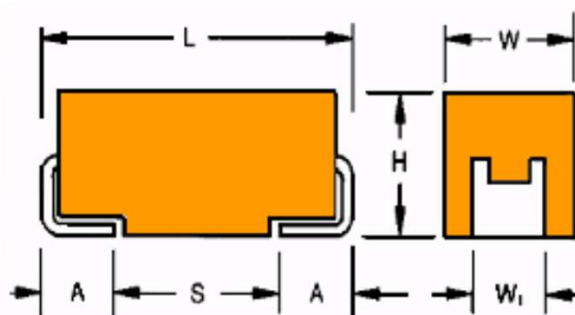
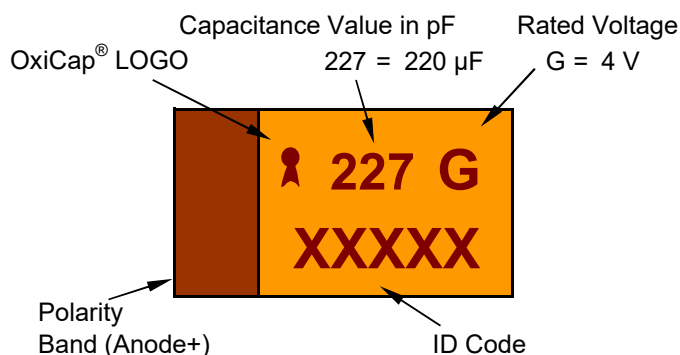
#

Packaging

0100

ESR  
in mOhms

## DRAWING AND DIMENSIONS:



Niobium oxide capacitors are manufactured and sold under patent license from Cabot Corporation, Boyertown, Pennsylvania U.S.A.

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## CASE DIMENSIONS: millimetres

Case							
EIA	Size	L ±0.2	W +0.2 –0.1	H +0.2 –0.1	A +0.3 –0.2	S min.	W1 ±0.2
7343-31	D	7.3	4.3	2.9	1.3	4.4	2.4

## PACKAGING INFORMATION:

Reel Size (#)	R = 7" Reel Pure Tin Termination	S = 13" Reel Pure Tin Termination
Quantity	500	2500
Tape Width	12 mm	12 mm

Issued by: KYOCERA AVX Technical Marketing Team  
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Version: 10/2021

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