

# OxiCap® NOS Low ESR Series



## Niobium Oxide Capacitor



- Low ESR NbO capacitors
- Non-burn safe technology
- Reliability level: 0.2%/1000 hrs.
- CV range: 10-1000µF / 1.8-6.3V
- 9 case sizes available
- IBM global approval received in 2004
- Electra Award received in 2005



Electra Award  
2005

### CASE DIMENSIONS: millimeters (inches)



For part marking see page 132

| 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 <sub>1</sub> ±0.20 (0.008) | A+0.30 (0.012) -0.20 (0.008) | S Min.       |
|------|----------|------------|----------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------|
| A    | 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) |
| B    | 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) |
| C    | 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)                 | 3.45 ±0.30 (0.136±0.012)     | 3.10 (0.120)                 | 1.40 (0.055)                 | 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) |
| X    | 2917     | 7343-15    | 7.30 (0.287)   | 4.30 (0.169)                 | 1.50 (0.059)                 | 2.40 (0.094)                 | 1.30 (0.051)                 | 4.40 (0.173) |
| Y    | 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<sub>1</sub> dimension applies to the termination width for A dimensional area only.

### HOW TO ORDER

**NOS**

Type

**D**

Case Size  
See table above

**107**

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

**M**

Tolerance  
M=±20%

**006**

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

**R**

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

**0100**

ESR in mΩ

**-**

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 technical data relate to an ambient temperature 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 <sub>R</sub> ) | ≤ +85°C:  | 1.8 | 2.5 | 4   | 6.3 |
| Category Voltage (V <sub>C</sub> ) | ≤ +125°C:   | 0.9 | 1.3 | 2   | 3   |
| Surge Voltage (V <sub>S</sub> )    | ≤ +85°C:  | 2.3 | 3.3 | 5.2 | 8   |
| Surge Voltage (V <sub>S</sub> )    | ≤ +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 <sub>R</sub> , 0.1Ω/V series impedance, 60% confidence level<br>Meets requirements of AEC-Q200 |     |     |     |     |

# OxiCap® NOS Low ESR Series



## Niobium Oxide Capacitor

### CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) 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)                      |
| 4.7         | 475  |   |                        |                               |                               |
| 6.8         | 685  |   |                        |                               |                               |
| 10          | 106  |   |                        |                               | A(800, 1000, 2000)            |
| 15          | 156  |   |                        | A(1500)                       | B(600)                        |
| 22          | 226  |   | A(900)                 | B(600)                        | B(600)                        |
| 33          | 336  |   |                        | B(600)                        | B(600)<br>C(500)<br>W(250)    |
| 47          | 476  |   | B(500)                 | B(500)<br>C(300)<br>W(150)    | B(500)<br>C(300)              |
| 68          | 686  |   | C(200)<br>W(150)       | C(200)                        | C(75,200)<br>X(100)<br>Y(100) |
| 100         | 107  | B(350)<br>W(150)  | C(150)                 | C(70,150)<br>X(100)           | C(150)<br>D(80,100)<br>Y(100) |
| 150         | 157  |   | C(65,150)<br>X(100)    | C(90,150)<br>Y(100)           | D(50,70,100)<br>Y(100)        |
| 220         | 227  | C(125)<br>X(100)  | C(80,125)<br>Y(100)    | D(40,60,100)<br>Y(100)        | D(45,60,100)<br>E(80,100)     |
| 330         | 337  | Y(100)  | D(35,50,100)<br>Y(100) | D(35,55,100)<br>E(100)/Y(150) | E(80,100)                     |
| 470         | 477  | Y(100)  | D(35,55,100)<br>E(100) | D(100)<br>E(75,100)           | V(75)                         |
| 680         | 687  |   | E(60)                  | V(75)                         |                               |
| 1000        | 108  |   | V(50)                  |                               |                               |



LEAD-FREE

LEAD-FREE COMPATIBLE  
COMPONENT



RoHS  
COMPLIANT



NON-BURN  
NON-SMOKE

Available Ratings, (ESR ratings in mOhms in brackets)

Engineering samples - please contact manufacturer

\*Codes under development - subject to change

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

# OxiCap® NOS Low ESR Series



## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.  | Case Size | Capacitance (µF) | Rated Voltage(V) | DCL (µA) | DF % | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) |       |       | 100kHz Ripple Voltage Ratings (V) |       |       |
|---|-----------|------------------|------------------|----------|------|-----------------------|-----------------------------------|-------|-------|-----------------------------------|-------|-------|
|   |           |                  |                  |          |      |                       | 25°C                              | 85°C  | 125°C | 25°C                              | 85°C  | 125°C |
| <b>1.8 Volt @ 85°C (1.2 Volt @ 105°C, 0.9 Volt @ 125°C)</b> |           |                  |                  |          |      |                       |                                   |       |       |                                   |       |       |
| NOSB107M001#0350  | B         | 100              | 1.8              | 3.6      | 6    | 350                   | 0.540                             | 0.486 | 0.216 | 0.189                             | 0.170 | 0.076 |
| NOSW107M001#0150  | W         | 100              | 1.8              | 3.6      | 6    | 150                   | 0.849                             | 0.764 | 0.339 | 0.127                             | 0.115 | 0.051 |
| NOSC227M001#0125  | C         | 220              | 1.8              | 8.0      | 8    | 125                   | 1.028                             | 0.925 | 0.411 | 0.128                             | 0.116 | 0.051 |
| NOSX227M001#0100  | X         | 220              | 1.8              | 8.0      | 8    | 100                   | 1.095                             | 0.986 | 0.438 | 0.110                             | 0.099 | 0.044 |
| NOSY337M001#0100  | Y         | 330              | 1.8              | 11.9     | 8    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSY477M001#0100  | Y         | 470              | 1.8              | 16.9     | 8    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| <b>2.5 Volt @ 85°C (1.7 Volt @ 105°C, 1.3 Volt @ 125°C)</b> |           |                  |                  |          |      |                       |                                   |       |       |                                   |       |       |
| NOSA226M002#0900  | A         | 22               | 2.5              | 1.1      | 6    | 900                   | 0.316                             | 0.285 | 0.126 | 0.285                             | 0.256 | 0.114 |
| NOSB476M002#0500  | B         | 47               | 2.5              | 2.4      | 6    | 500                   | 0.452                             | 0.406 | 0.181 | 0.226                             | 0.203 | 0.090 |
| NOSC686M002#0200  | C         | 68               | 2.5              | 3.4      | 6    | 200                   | 0.812                             | 0.731 | 0.325 | 0.162                             | 0.146 | 0.065 |
| NOSW686M002#0150  | W         | 68               | 2.5              | 3.4      | 6    | 150                   | 0.849                             | 0.764 | 0.339 | 0.127                             | 0.115 | 0.051 |
| NOSC107M002#0150  | C         | 100              | 2.5              | 5.0      | 6    | 150                   | 0.938                             | 0.844 | 0.375 | 0.141                             | 0.127 | 0.056 |
| NOSC157M002#0065  | C         | 150              | 2.5              | 7.6      | 6    | 65                    | 1.425                             | 1.283 | 0.570 | 0.093                             | 0.083 | 0.037 |
| NOSC157M002#0150  | C         | 150              | 2.5              | 7.6      | 6    | 150                   | 0.938                             | 0.844 | 0.375 | 0.141                             | 0.127 | 0.056 |
| NOSX157M002#0100  | X         | 150              | 2.5              | 7.5      | 6    | 100                   | 1.095                             | 0.986 | 0.438 | 0.110                             | 0.099 | 0.044 |
| NOSC227M002#0080  | C         | 220              | 2.5              | 11.0     | 8    | 80                    | 1.285                             | 1.156 | 0.514 | 0.103                             | 0.092 | 0.041 |
| NOSC227M002#0125  | C         | 220              | 2.5              | 11.0     | 8    | 125                   | 1.028                             | 0.925 | 0.411 | 0.128                             | 0.116 | 0.051 |
| NOSY227M002#0100  | Y         | 220              | 2.5              | 11.0     | 8    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD337M002#0035  | D         | 330              | 2.5              | 16.5     | 6    | 35                    | 2.268                             | 2.041 | 0.907 | 0.079                             | 0.071 | 0.032 |
| NOSD337M002#0100  | D         | 330              | 2.5              | 16.5     | 10   | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSY337M002#0100  | Y         | 330              | 2.5              | 16.5     | 10   | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD477M002#0035  | D         | 470              | 2.5              | 23.5     | 6    | 35                    | 2.268                             | 2.041 | 0.907 | 0.079                             | 0.071 | 0.032 |
| NOSD447M002#0055  | D         | 470              | 2.5              | 23.5     | 10   | 55                    | 1.809                             | 1.628 | 0.724 | 0.099                             | 0.090 | 0.040 |
| NOSD447M002#0100  | D         | 470              | 2.5              | 23.5     | 10   | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSE477M002#0100  | E         | 470              | 2.5              | 23.5     | 10   | 100                   | 1.407                             | 1.266 | 0.563 | 0.141                             | 0.127 | 0.056 |
| NOSE687M002#0060  | E         | 680              | 2.5              | 34.0     | 12   | 60                    | 1.817                             | 1.635 | 0.727 | 0.109                             | 0.098 | 0.044 |
| NOSV108M002#0050  | V         | 1000             | 2.5              | 50.0     | 18   | 50                    | 2.449                             | 2.205 | 0.980 | 0.122                             | 0.110 | 0.049 |
| <b>4 Volt @ 85°C (2.6 Volt @ 105°C, 2 Volt @ 125°C)</b>     |           |                  |                  |          |      |                       |                                   |       |       |                                   |       |       |
| NOSA156M004#1500  | A         | 15               | 4                | 1.2      | 6    | 1500                  | 0.245                             | 0.220 | 0.098 | 0.367                             | 0.331 | 0.147 |
| NOSB226M004#0600  | B         | 22               | 4                | 1.8      | 6    | 600                   | 0.412                             | 0.371 | 0.165 | 0.247                             | 0.223 | 0.099 |
| NOSB336M004#0600  | B         | 33               | 4                | 2.6      | 6    | 600                   | 0.412                             | 0.371 | 0.165 | 0.247                             | 0.223 | 0.099 |
| NOSB476M004#0500  | B         | 47               | 4                | 3.8      | 6    | 500                   | 0.452                             | 0.406 | 0.181 | 0.226                             | 0.203 | 0.090 |
| NOSC476M004#0300  | C         | 47               | 4                | 3.8      | 6    | 300                   | 0.663                             | 0.597 | 0.265 | 0.199                             | 0.179 | 0.080 |
| NOSW476M004#0150  | W         | 47               | 4                | 3.8      | 6    | 150                   | 0.849                             | 0.764 | 0.339 | 0.127                             | 0.115 | 0.051 |
| NOSC686M004#0200  | C         | 68               | 4                | 5.4      | 6    | 200                   | 0.812                             | 0.731 | 0.325 | 0.162                             | 0.146 | 0.065 |
| NOSC107M004#0070  | C         | 100              | 4                | 8.0      | 6    | 70                    | 1.373                             | 1.236 | 0.549 | 0.096                             | 0.087 | 0.038 |
| NOSC107M004#0150  | C         | 100              | 4                | 8.0      | 6    | 150                   | 0.938                             | 0.844 | 0.375 | 0.141                             | 0.127 | 0.056 |
| NOSX107M004#0100  | X         | 100              | 4                | 8.0      | 6    | 100                   | 1.095                             | 0.986 | 0.438 | 0.110                             | 0.099 | 0.044 |
| NOSC157M004#0090  | C         | 150              | 4                | 12.0     | 6    | 90                    | 1.211                             | 1.090 | 0.484 | 0.109                             | 0.098 | 0.044 |
| NOSC157M004#0150  | C         | 150              | 4                | 12.0     | 6    | 150                   | 0.938                             | 0.844 | 0.375 | 0.141                             | 0.127 | 0.056 |
| NOSY157M004#0100  | Y         | 150              | 4                | 12.0     | 6    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD227M004#0040  | D         | 220              | 4                | 17.6     | 6    | 40                    | 2.121                             | 1.909 | 0.849 | 0.085                             | 0.076 | 0.034 |
| NOSD227M004#0060  | D         | 220              | 4                | 17.6     | 8    | 60                    | 1.732                             | 1.559 | 0.693 | 0.104                             | 0.094 | 0.042 |
| NOSD227M004#0100  | D         | 220              | 4                | 17.6     | 8    | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSY227M004#0100  | Y         | 220              | 4                | 17.6     | 10   | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD337M004#0035  | D         | 330              | 4                | 26.4     | 6    | 35                    | 2.268                             | 2.041 | 0.907 | 0.079                             | 0.071 | 0.032 |
| NOSD337M004#0100  | D         | 330              | 4                | 26.4     | 8    | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSE337M004#0100  | E         | 330              | 4                | 26.4     | 8    | 100                   | 1.407                             | 1.266 | 0.563 | 0.141                             | 0.127 | 0.056 |
| NOSY337M004#0150  | Y         | 330              | 4                | 26.4     | 12   | 150                   | 1.000                             | 0.900 | 0.400 | 0.150                             | 0.135 | 0.060 |
| NOSD477M004#0100  | D         | 470              | 4                | 37.6     | 12   | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSE477M004#0075  | E         | 470              | 4                | 37.6     | 12   | 75                    | 1.625                             | 1.462 | 0.650 | 0.122                             | 0.110 | 0.049 |
| NOSE477M004#0100  | E         | 470              | 4                | 37.6     | 12   | 100                   | 1.407                             | 1.266 | 0.563 | 0.141                             | 0.127 | 0.056 |
| NOSV687M004#0075  | V         | 680              | 4                | 54.4     | 14   | 75                    | 2.000                             | 1.800 | 0.800 | 0.150                             | 0.135 | 0.060 |

# - 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.**



# OxiCap® NOS Low ESR Series



## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.  | Case Size | Capacitance (µF) | Rated Voltage(V) | DCL (µA) | DF % | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) |       |       | 100kHz Ripple Voltage Ratings (V) |       |       |
|---|-----------|------------------|------------------|----------|------|-----------------------|-----------------------------------|-------|-------|-----------------------------------|-------|-------|
|   |           |                  |                  |          |      |                       | 25°C                              | 85°C  | 125°C | 25°C                              | 85°C  | 125°C |
| <b>6.3 Volt @ 85°C (4 Volt @ 105°C, 3 Volt @ 125°C)</b> |           |                  |                  |          |      |                       |                                   |       |       |                                   |       |       |
| NOSA106M006#0800  | A         | 10               | 6.3              | 1.2      | 6    | 800                   | 0.335                             | 0.302 | 0.134 | 0.268                             | 0.241 | 0.107 |
| NOSA106M006#1000  | A         | 10               | 6.3              | 1.2      | 6    | 1000                  | 0.300                             | 0.270 | 0.120 | 0.300                             | 0.270 | 0.120 |
| NOSA106M006#2000  | A         | 10               | 6.3              | 1.2      | 6    | 2000                  | 0.212                             | 0.191 | 0.085 | 0.424                             | 0.382 | 0.170 |
| NOSB156M006#0600  | B         | 15               | 6.3              | 1.8      | 6    | 600                   | 0.412                             | 0.371 | 0.165 | 0.247                             | 0.223 | 0.099 |
| NOSB226M006#0600  | B         | 22               | 6.3              | 2.6      | 6    | 600                   | 0.412                             | 0.371 | 0.165 | 0.247                             | 0.223 | 0.099 |
| NOSB336M006#0600  | B         | 33               | 6.3              | 4.0      | 6    | 600                   | 0.412                             | 0.371 | 0.165 | 0.247                             | 0.223 | 0.099 |
| NOSC336M006#0500  | C         | 33               | 6.3              | 4.0      | 6    | 500                   | 0.514                             | 0.462 | 0.206 | 0.257                             | 0.231 | 0.103 |
| NOSW336M006#0250  | W         | 33               | 6.3              | 4.0      | 6    | 250                   | 0.657                             | 0.592 | 0.263 | 0.164                             | 0.148 | 0.066 |
| NOSB476M006#0500  | B         | 47               | 6.3              | 5.6      | 6    | 500                   | 0.452                             | 0.406 | 0.181 | 0.226                             | 0.203 | 0.090 |
| NOSC476M006#0300  | C         | 47               | 6.3              | 5.7      | 6    | 300                   | 0.663                             | 0.597 | 0.265 | 0.199                             | 0.179 | 0.080 |
| NOSC686M006#0075  | C         | 68               | 6.3              | 8.2      | 6    | 75                    | 1.327                             | 1.194 | 0.531 | 0.099                             | 0.090 | 0.040 |
| NOSC686M006#0200  | C         | 68               | 6.3              | 8.2      | 6    | 200                   | 0.812                             | 0.731 | 0.325 | 0.162                             | 0.146 | 0.065 |
| NOSX686M006#0100  | X         | 68               | 6.3              | 8.2      | 6    | 100                   | 1.095                             | 0.986 | 0.438 | 0.110                             | 0.099 | 0.044 |
| NOSY686M006#0100  | Y         | 68               | 6.3              | 8.2      | 6    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSC107M006#0150  | C         | 100              | 6.3              | 12.0     | 8    | 150                   | 0.938                             | 0.844 | 0.375 | 0.141                             | 0.127 | 0.056 |
| NOSD107M006#0080  | D         | 100              | 6.3              | 12.0     | 6    | 80                    | 1.500                             | 1.350 | 0.600 | 0.120                             | 0.108 | 0.048 |
| NOSD107M006#0100  | D         | 100              | 6.3              | 12.0     | 6    | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSY107M006#0100  | Y         | 100              | 6.3              | 12.0     | 6    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD157M006#0050  | D         | 150              | 6.3              | 18.0     | 6    | 50                    | 1.897                             | 1.708 | 0.759 | 0.095                             | 0.085 | 0.038 |
| NOSD157M006#0070  | D         | 150              | 6.3              | 18.0     | 6    | 70                    | 1.604                             | 1.443 | 0.641 | 0.112                             | 0.101 | 0.045 |
| NOSD157M006#0100  | D         | 150              | 6.3              | 18.0     | 6    | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSY157M006#0100  | Y         | 150              | 6.3              | 18.0     | 6    | 100                   | 1.225                             | 1.102 | 0.490 | 0.122                             | 0.110 | 0.049 |
| NOSD227M006#0045  | D         | 220              | 6.3              | 26.4     | 6    | 45                    | 2.000                             | 1.800 | 0.800 | 0.090                             | 0.081 | 0.036 |
| NOSD227M006#0060  | D         | 220              | 6.3              | 26.4     | 8    | 60                    | 1.732                             | 1.559 | 0.693 | 0.104                             | 0.094 | 0.042 |
| NOSD227M006#0100  | D         | 220              | 6.3              | 26.4     | 8    | 100                   | 1.342                             | 1.207 | 0.537 | 0.134                             | 0.121 | 0.054 |
| NOSE227M006#0080  | E         | 220              | 6.3              | 26.4     | 12   | 80                    | 1.573                             | 1.416 | 0.629 | 0.126                             | 0.113 | 0.050 |
| NOSE227M006#0100  | E         | 220              | 6.3              | 26.4     | 12   | 100                   | 1.407                             | 1.266 | 0.563 | 0.141                             | 0.127 | 0.056 |
| NOSE337M006#0080  | E         | 330              | 6.3              | 39.6     | 12   | 80                    | 1.573                             | 1.416 | 0.629 | 0.126                             | 0.113 | 0.050 |
| NOSE337M006#0100  | E         | 330              | 6.3              | 39.6     | 12   | 100                   | 1.407                             | 1.266 | 0.563 | 0.141                             | 0.127 | 0.056 |
| NOSV477M006#0075  | V         | 470              | 6.3              | 56.4     | 12   | 75                    | 2.000                             | 1.800 | 0.800 | 0.150                             | 0.135 | 0.060 |

# - 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.**