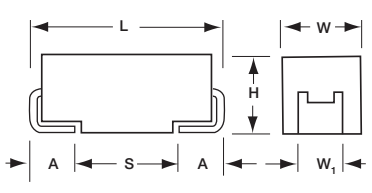
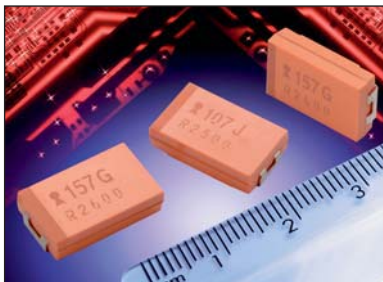


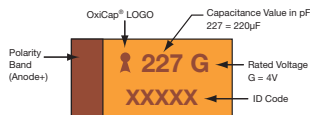
OxiCap® NOJ Series

Low Profile

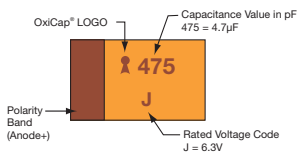


MARKING

F, S, T, W, X, Y CASE



P CASE



HOW TO ORDER

NOJ

Type

Y

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
010 = 10Vdc

R

Packaging
R = Pure Tin 7" Reel
S = Pure Tin 13" Reel

WJ

Specification Suffix
WJ = Standard Suffix

—

Additional characters may be added for special requirements
V = Dry pack Option (selected codes only) with exception of X, Y cases

FEATURES

- Non-burn safe technology
- Reliability level: 0.5%/1000 hrs.
- CV range: 2.2-470μF / 1.8-10V
- 7 case sizes in low profile available
- IBM global approval received in 2004
- Elektra Award received in 2005

APPLICATIONS

- Downsized industrial and automotive DC/DCs



Elektra Award
2005

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H Max	W, ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
F	2312	6032-20	6.00 (0.236)	3.20 (0.126)	2.00 (0.079)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
P	0805	2012-15	2.05 (0.081)	1.35 (0.053)	1.50 (0.059)	1.00±0.10 (0.039±0.004)	0.50 (0.020)	0.85 (0.033)
S	1206	3216-12	3.20 (0.126)	1.60 (0.063)	1.20 (0.047)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
T	1210	3528-12	3.50 (0.138)	2.80 (0.110)	1.20 (0.047)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059)	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)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

W₁ dimension applies to the termination width for A dimensional area only.
Pad Stand-off is 0.1±0.1.

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C is not stated					
Capacitance Range:		2.2 μF to 470 μF					
Capacitance Tolerance:		±20%					
Leakage Current DCL:		0.02CV or 1.0μA whichever is the greater					
Rated Voltage DC (V _R)	≤ +85°C:	1.8	2.5	4	6.3	10	
Category Voltage (V _C)	≤ +105°C:	1.2	1.7	2.7	4	7	
Surge Voltage (V _S)	≤ +85°C:	2.3	3.3	5.2	8	13	
Surge Voltage (V _S)	≤ +105°C:	1.6	2.2	3.4	5	8	
Temperature Range:		-55°C to +105°C					
Reliability:		0.5% per 1000 hours at 85°C, V _R , 0.1Ω/V series impedance, 60% confidence level					
		Meets requirements of AEC-Q200					



OxiCap® NOJ Series



Low Profile

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V_R) to 85°C / 0.66 DC to 105°C				
μF	Code	1.8V (x)	2.5V (e)	4V (G)	6.3V (J)	10V (A)
1.0	105					
1.5	155					
2.2	225					P
3.3	335					P
4.7	475				P/S	T
6.8	685			P/S	P/S/T	T
10	106		P/S	P/S/T	P/T	T
15	156	P/S	P/S/T	P/T		
22	226	P/S/T	P/T	T	T	
33	336	T	T	T	W	
47	476	T	T	W	W	
68	686		W	W	X/Y	
100	107	W	W	W/X	F/Y	
150	157		X	Y	F/Y	
220	227	X	Y	F/Y	Y	
330	337	Y	Y	Y		
470	477	Y				

Released codes

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.



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)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL (µA) Max.	DF % Max.	ESR Max. (Ω) @ 100kHz	MSL	100kHz RMS Current (A)		
											25°C	85°C	105°C
1.8 Volt @ 85°C													
NOJP156M001#WJ	P	15	1.8	85	1.2	105	1.0	10	4.1	1	0.133	0.119	0.053
NOJS156M001#WJ	S	15	1.8	85	1.2	105	1.0	6	2	1	0.197	0.178	0.079
NOJP226M001#WJ	P	22	1.8	85	1.2	105	1.0	10	3.8	1	0.138	0.124	0.055
NOJS226M001#WJ	S	22	1.8	85	1.2	105	1.0	8	1.9	1	0.203	0.182	0.081
NOJT226M001#WJ	T	22	1.8	85	1.2	105	1.0	6	1.8	1	0.231	0.208	0.092
NOJT336M001#WJ	T	33	1.8	85	1.2	105	1.2	6	1.7	1	0.238	0.214	0.095
NOJT476M001#WJ	T	47	1.8	85	1.2	105	1.7	10	1.6	1	0.245	0.220	0.098
NOJW107M001#WJ	W	100	1.8	85	1.2	105	3.6	6	0.4	1	0.520	0.468	0.208
NOJX227M001#WJ	X	220	1.8	85	1.2	105	8.0	8	0.4	3	0.548	0.493	0.219
NOJY337M001#WJ	Y	330	1.8	85	1.2	105	11.9	8	0.3	3	0.707	0.636	0.283
NOJY477M001#WJ	Y	470	1.8	85	1.2	105	17.0	8	0.3	3	0.707	0.636	0.283
2.5 Volt @ 85°C													
NOJP106M002#WJ	P	10	2.5	85	1.7	105	1.0	6	4.5	1	0.126	0.114	0.051
NOJS106M002#WJ	S	10	2.5	85	1.7	105	1.0	6	2.2	1	0.188	0.169	0.075
NOJP156M002#WJ	P	15	2.5	85	1.7	105	1.0	6	4	1	0.134	0.121	0.054
NOJS156M002#WJ	S	15	2.5	85	1.7	105	1.0	8	2	1	0.197	0.178	0.079
NOJT156M002#WJ	T	15	2.5	85	1.7	105	1.0	6	2	1	0.219	0.197	0.088
NOJP226M002#WJ	P	22	2.5	85	1.7	105	1.1	10	3.8	1	0.138	0.124	0.055
NOJT226M002#WJ	T	22	2.5	85	1.7	105	1.1	6	1.9	1	0.225	0.202	0.090
NOJT336M002#WJ	T	33	2.5	85	1.7	105	1.7	6	1.7	1	0.238	0.214	0.095
NOJT476M002#WJ	T	47	2.5	85	1.7	105	2.4	10	1.6	1	0.245	0.220	0.098
NOJW686M002#WJ	W	68	2.5	85	1.7	105	3.4	6	0.4	1	0.520	0.468	0.208
NOJW107M002#WJ	W	100	2.5	85	1.7	105	5.0	6	0.4	1	0.520	0.468	0.208
NOJX157M002#WJ	X	150	2.5	85	1.7	105	7.5	6	0.4	3	0.548	0.493	0.219
NOJY227M002#WJ	Y	220	2.5	85	1.7	105	11.0	8	0.4	3	0.612	0.551	0.245
NOJY337M002#WJ	Y	330	2.5	85	1.7	105	16.5	10	0.3	3	0.707	0.636	0.283
4 Volt @ 85°C													
NOJP685M004#WJ	P	6.8	4	85	2.7	105	1.0	6	5.3	1	0.117	0.105	0.047
NOJS685M004#WJ	S	6.8	4	85	2.7	105	1.0	6	2.6	1	0.173	0.156	0.069
NOJP106M004#WJ	P	10	4	85	2.7	105	1.0	20	4.5	1	0.126	0.114	0.051
NOJS106M004#WJ	S	10	4	85	2.7	105	1.0	8	2.2	1	0.188	0.169	0.075
NOJT106M004#WJ	T	10	4	85	2.7	105	1.0	6	2.2	1	0.209	0.188	0.084
NOJP156M004#WJ	P	15	4	85	2.7	105	1.2	10	4.1	1	0.133	0.119	0.053
NOJT156M004#WJ	T	15	4	85	2.7	105	1.2	6	2	1	0.219	0.197	0.088
NOJT226M004#WJ	T	22	4	85	2.7	105	1.8	6	1.8	1	0.231	0.208	0.092
NOJT336M004#WJ	T	33	4	85	2.7	105	2.6	14	2	1	0.219	0.197	0.088
NOJW476M004#WJ	W	47	4	85	2.7	105	3.8	6	0.5	1	0.465	0.418	0.186
NOJW686M004#WJ	W	68	4	85	2.7	105	5.4	6	0.4	1	0.520	0.468	0.208
NOJW107M004#WJ	W	100	4	85	2.7	105	8.0	8	0.4	1	0.520	0.468	0.208
NOJX107M004#WJ	X	100	4	85	2.7	105	8.0	6	0.4	3	0.548	0.493	0.219
NOJY157M004#WJ	Y	150	4	85	2.7	105	12.0	6	0.4	3	0.612	0.551	0.245
NOJF227M004#WJ	F	220	4	85	2.7	105	17.6	10	0.4	1	0.548	0.493	0.219
NOJY227M004#WJ	Y	220	4	85	2.7	105	17.6	10	0.4	3	0.612	0.551	0.245
NOJY337M004#WJ	Y	330	4	85	2.7	105	26.4	12	0.3	3	0.707	0.636	0.283
6.3 Volt @ 85°C													
NOJP475M006#WJ	P	4.7	6.3	85	4	105	1.0	6	6.1	1	0.109	0.098	0.043
NOJS475M006#WJ	S	4.7	6.3	85	4	105	1.0	6	3.2	1	0.156	0.141	0.062
NOJP685M006#WJ	P	6.8	6.3	85	4	105	1.0	10	5.2	1	0.118	0.106	0.047
NOJS685M006#WJ	S	6.8	6.3	85	4	105	1.0	8	2.7	1	0.170	0.153	0.068
NOJT685M006#WJ	T	6.8	6.3	85	4	105	1.0	6	2.6	1	0.192	0.173	0.077
NOJP106M006#WJ	P	10	6.3	85	4	105	1.2	10	4.5	1	0.126	0.114	0.051
NOJT106M006#WJ	T	10	6.3	85	4	105	1.2	6	2.2	1	0.209	0.188	0.084
NOJT226M006#WJ	T	22	6.3	85	4	105	2.6	8	1.8	1	0.231	0.208	0.092
NOJW336M006#WJ	W	33	6.3	85	4	105	4.0	6	0.5	1	0.465	0.418	0.186
NOJW476M006#WJ	W	47	6.3	85	4	105	5.7	6	0.5	1	0.465	0.418	0.186
NOJX686M006#WJ	X	68	6.3	85	4	105	8.2	6	0.5	3	0.490	0.441	0.196
NOJY686M006#WJ	Y	68	6.3	85	4	105	8.2	6	0.5	3	0.548	0.493	0.219
NOJF107M006#WJ	F	100	6.3	85	4	105	12	8	0.4	1	0.548	0.493	0.219
NOJY107M006#WJ	Y	100	6.3	85	4	105	12.0	6	0.4	3	0.612	0.551	0.245
NOJF157M006#WJ	F	150	6.3	85	4	105	18.0	8	0.4	1	0.548	0.493	0.219
NOJY157M006#WJ	Y	150	6.3	85	4	105	18.0	6	0.4	3	0.612	0.551	0.245
NOJY227M006#WJ	Y	220	6.3	85	4	105	26.4	10	0.4	3	0.612	0.551	0.245
10 Volt @ 85°C													
NOJP225M010#WJ	P	2.2	10	85	7	105	1.0	8	8.3	1	0.093	0.084	0.037
NOJP335M010#WJ	P	3.3	10	85	7	105	1.0	8	7	1	0.101	0.091	0.041
NOJT475M010#WJ	T	4.7	10	85	7	105	1.0	6	3.1	1	0.176	0.158	0.070
NOJT685M010#WJ	T	6.8	10	85	7	105	1.4	6	2.6	1	0.192	0.173	0.077
NOJT106M010#WJ	T	10	10	85	7	105	2.0	6	2.2	1	0.209	0.188	0.084

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.

The EIA and CECC standards for capacitors allow an ESR movement to 1.25 times catalog limit post mounting.

For typical weight and composition see page 202.

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

*Initial Limit