**Specification Details:** **Date: 6/6/2013**

Specification: MIL-PRF-39006
Title: Capacitor, Fixed, Electrolytic (Non-Solid Electrolyte), Tantalum
Federal Supply Class (FSC): 5910
Conventional: No
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: Yes
MIL-STD-690 Failure Rate Sampling Plans & Procedures: Yes
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: Yes

**Contact Information:**

Office of Primary Involvement: Passive Devices Branch, DLA Land and Maritime - VQP
Primary Qualifying Activity Contact: 614-692-0609, e-mail: vqp.do@dla.mil
Secondary Qualifying Activity Contact: 614-692-0597, e-mail: vqp.jz@dla.mil

**Notes:**

FAILURE RATE LEVEL "L" INACTIVE FOR NEW DESIGN AFTER 27 MAY 1976.

Contact the manufacturer or refer to the manufacturers website for a list of Authorized Distributors.

**Part Configuration:**

M39006/22-8001H

| Military Designator | Slash Sheet | Dash Number | H when Specified |
|---|---|---|---|
| M39006 | /22 | -8001 | H |

**PART LISTINGS**

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **CLR65** | | | | |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-753-03 | /9 | Vishay Israel, Ltd. |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
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| **CLR65** | | | | |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates L, M, P, R; case sizes T1, T2, T3, T4 | WT | 39006-42-02; 39006-812-76 | /9 | Vishay Tansitor Electronics, Inc. |
| **CLR69** | | | | |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P; case sizes T1, T2, T3, T4 | 138D | 39006-750-03 | /21 | Vishay Israel, Ltd. |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 138D | 39006-366-03 | /21 | Vishay Tansitor Electronics, Inc. |
| **CLR79** | | | | |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |

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| **CLR79** | | | | |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /22 | AVX Tantalum Corporation |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /22 | Vishay Israel, Ltd. |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AQ | 39006-238-83; 39006-989-04 | /22 | Vishay Tansitor Electronics, Inc. |
| **CLR81** | | | | |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |

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|---|---|---|---|---|
| **CLR81** | | | | |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /25 | AVX Tantalum Corporation |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-752-03 | /25 | Vishay Israel, Ltd. |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | AR | 39006-789-85; 39006-989-04 | /25 | Vishay Tansitor Electronics, Inc. |
| **CLR90** | | | | |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **CLR90** | | | | |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; case sizes T1, T2, T3, T4 | TWC | 39006-3340-11 | /30 | AVX Tantalum Corporation |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 8 uf thru 3000 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 390060751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /30 | Vishay Israel, Ltd. |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 30 uf thru 1200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 25 uf thru 850 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 20 uf thru 750 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 15 uf thru 540 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 350 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 8 uf thru 300 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 5 uf thru 160 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **CLR90** | | | | |
| Cap. values 4 uf thru 140 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 3.5 uf thru 110 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 2.5 uf thru 86 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ET | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| Cap. values 1.7 uf thru 56 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | EQ | 39006-215-94; 39006-989-04 | /30 | Vishay Tansitor Electronics, Inc. |
| **CLR91** | | | | |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V | 135D | | /31 | |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | | /31 | |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P; case sizes T1, T2, T3, T4 | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P | TWC | 39006-3341-11 | /31 | AVX Tantalum Corporation |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | 135D | 39006-751-03 | /31 | Vishay Israel, Ltd. |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 220 uf thru 2200 uf, all tols.; 6 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 180 uf thru 1800 uf, all tols.; 8 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 150 uf thru 1500 uf, all tols.; 10 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 100 uf thru 1000 uf, all tols.; 15 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-215-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **CLR91** | | | | |
| Cap. values 68 uf thru 680 uf, all tols.; 25 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 56 uf thru 560 uf, all tols.; 30 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 33 uf thru 330 uf, all tols.; 50 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 27 uf thru 270 uf, all tols.; 60 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 22 uf thru 220 uf, all tols.; 75 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 10 uf thru 120 uf, all tols.; 100 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ES | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |
| Cap. values 6.8 uf thru 82 uf, all tols.; 125 V; life failure rates M, P, R; char. H; case sizes T1, T2, T3, T4 | ER | 39006-216-94; 39006-989-04 | /31 | Vishay Tansitor Electronics, Inc. |

## Manufacturer and Supplier Location Information

**Manufacturer: AVX Tantalum Corporation (CAGE Code: 17554)**
Location: 401 Hill Street, Biddeford, ME 04005-4335,

**Manufacturer: Vishay Israel, Ltd. (CAGE Code: SH905)**
Location: Vishay Dimona, Dimona Industrial Zone, Dimona 86000, Israel

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Vishay Tansitor Electronics, Inc. (CAGE Code: 05079)**
Location: P.O. Box 230, 2813 West Road, Bennington, VT 05201-9714, US

Plants:

1. Plant: Same Address as Manufacturer