

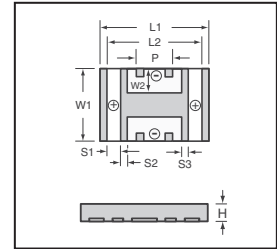
nichicon Decoupling Capacitors for High Frequency



Features:

- Higher Capacitance • Low ESR, High Ripple Current
- Resin-molded chip • Designed for surface mounting on high density PC boards • Load life of 1000 hours at 105°C

| Case Code | Dimensions in mm | | | | | | | | |
|-----------|------------------|----------|----------|---------|---------|---------|---------|---------|---------|
| | L1 | L2 | W1 | W2 | H | S1 | S2 | S3 | P |
| D | 8.5±0.2 | 7.3±0.2 | 5.3±0.2 | 1.3±0.3 | 2.0Max. | 0.9±0.2 | 0.6±0.2 | 0.5±0.2 | 3.3±0.2 |
| F | 16.7±0.2 | 15.6±0.2 | 12.1±0.2 | 3.3±0.2 | 2.5Max. | 1.5±0.1 | 1.3±0.1 | 1.5±0.2 | 7.0±0.2 |



| Rated Voltage | Cap. (µF) | Capacitance Tolerance | Case Code | Leakage Current (µA) | Dissipation Factor (% @120Hz) | E.S.R. (mΩ @100kHz) | Digi-Key Part No. | Cut Tape Price Each | | | Tape & Reel Pricing 100 | Nichicon Part No. |
|---------------|-----------|-----------------------|-----------|----------------------|-------------------------------|---------------------|-------------------|---------------------|------|------|-------------------------|-------------------|
| | | | | | | | | 5 | 10 | 25 | | |
| 2.5 | 220 | ±20% | D | 55 | 5 | 20.0 | 493-3120-1-ND | 2.82 | 2.32 | 2.16 | 105.97 | F110E227MDL |
| | 600 | ±20% | F | 150 | 10 | 5.0 | 493-3116-1-ND | 5.96 | 4.91 | 4.56 | 224.25 | F110E607MFK |
| | 1200 | ±20% | F | 300 | 10 | 5.0 | 493-3117-1-ND | 6.22 | 5.12 | 4.76 | 233.99 | F110E128MFK |
| 4 | 100 | ±20% | D | 40 | 5 | 20.0 | 493-3121-1-ND | 2.82 | 2.32 | 2.16 | 105.97 | F110G107MDL |
| | 800 | ±20% | F | 320 | 10 | 5.0 | 493-3118-1-ND | 5.96 | 4.91 | 4.56 | 224.25 | F110G807MFK |
| | 47 | ±20% | D | 30 | 5 | 20.0 | 493-3122-1-ND | 2.82 | 2.32 | 2.16 | 105.97 | F110J476MDL |
| 6.3 | 600 | ±20% | F | 378 | 10 | 5.0 | 493-3119-1-ND | 5.96 | 4.91 | 4.56 | 224.25 | F110J607MFK |

† For Tape and Reel part number, change 1-ND to 2-ND.

Solid Tantalum Electrolytic Chip Capacitors (SMT)



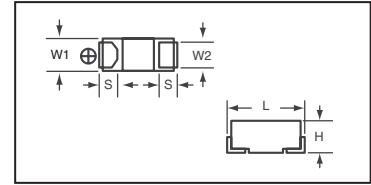
Features:

- F93 - Standard Series** • General purpose rectangular resin molded chip • Low ESR/impedance, excellent high frequency characteristics • Excellent humidity resistance
- F91 - Low ESR Series** • Rectangular resin molded chip • Low ESR
- F92 - Compact Series** • Low profile, rectangular resin molded chip • Excellent high frequency characteristics • Excellent humidity resistance
- F97 - High Reliability Series** • Rectangular resin molded chip • Soldering heat resistance • Superior humidity and environment resistance • High reliability

Specification:

- Operating Temperature Range: -55°C - 125°C

| Case Code | Dimensions in mm | | | | |
|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | L | W1 | W2 | H | S |
| A (F93 / 97) A (F92) | 3.2±0.2 3.2±0.2 | 1.6±0.2 1.6±0.2 | 1.2±0.1 1.2±0.1 | 1.6±0.1 1.1±0.1 | 0.8±0.2 0.8±0.2 |
| B | 3.5±0.2 | 2.8±0.2 | 2.2±0.1 | 1.9±0.2 | 0.8±0.2 |
| C | 6.0±0.2 | 3.2±0.2 | 2.2±0.1 | 2.5±0.2 | 1.3±0.2 |
| N | 7.3±0.2 | 4.3±0.2 | 2.4±0.1 | 2.8±0.2 | 1.3±0.2 |
| P | 2.0±0.2 | 1.25±0.1 | 0.9±0.1 | 1.1±0.1 | 0.5±0.2 |



| Rated Voltage | Cap. (µF) | Capacitance Tolerance | Case Size | Leakage Current (µA) | Dissipation Factor (% @120Hz) | E.S.R. (Ω @100kHz) | Digi-Key Part No. | Cut Tape Pricing | | Digi-Key Part No. | Tape and Reel | | Nichicon Part No. |
|------------------------------|-----------|-----------------------|-----------|----------------------|-------------------------------|--------------------|-------------------|------------------|---------------|-------------------|---------------|-------------|-------------------|
| | | | | | | | | 10 | 100 | | Qty. | Pricing | |
| F93 - Standard Series | | | | | | | | | | | | | |
| 6.3 | 3.3 | ±20% | A | 0.5 | 6 | 4.5 | 493-2346-1-ND | 1.35 | 11.55 | 493-2346-2-ND | 2,000 | 54.87/M | F930J335MAA |
| | 4.7 | ±20% | A | 0.5 | 6 | 4.0 | 493-2347-1-ND | 1.39 | 11.89 | 493-2347-2-ND | 2,000 | 56.49/M | F930J475MAA |
| | 6.8 | ±20% | A | 0.5 | 6 | 3.5 | 493-2349-1-ND | 1.43 | 12.23 | 493-2349-2-ND | 2,000 | 58.10/M | F930J685MAA |
| | 10 | ±20% | A | 0.6 | 6 | 3.0 | 493-2340-1-ND | 1.36 | 11.61 | 493-2340-2-ND | 2,000 | 55.15/M | F930J106MAA |
| | 15 | ±20% | A | 0.9 | 8 | 2.9 | 493-2341-1-ND | 1.55 | 13.33 | 493-2341-2-ND | 2,000 | 63.32/M | F930J156MAA |
| | 15 | ±20% | B | 0.9 | 6 | 2.0 | 493-2342-1-ND | 1.45 | 12.46 | 493-2342-2-ND | 2,000 | 59.53/M | F930J156MBA |
| | 22 | ±20% | A | 1.4 | 8 | 2.5 | 493-2343-1-ND | 1.63 | 13.93 | 493-2343-2-ND | 2,000 | 66.17/M | F930J226MAA |
| | 22 | ±20% | A | 1.4 | 6 | 1.9 | 493-2344-1-ND | 1.87 | 15.97 | 493-2344-2-ND | 2,000 | 71.86/M | F930J226MBA |
| | 47 | ±20% | B | 3.0 | 8 | 1.0 | 493-2348-1-ND | 2.42 | 20.71 | 493-2348-2-ND | 2,000 | 93.18/M | F930J476MBA |
| | 68 | ±20% | C | 4.3 | 8 | 0.8 | 493-2350-1-ND | 3.92 | 33.61 | 493-2350-2-ND | 500 | 95.23 | F930J686MCC |
| 220 | ±20% | N | 13.9 | 10 | 0.5 | 493-2345-1-ND | 7.25 | 62.10 | 493-2345-2-ND | 500 | 165.60 | F930J227MNC | |
| 10 | 2.2 | ±20% | A | 0.5 | 6 | 5.0 | 493-2356-1-ND | 1.13 | 9.63 | 493-2356-2-ND | 2,000 | 45.74/M | F931A225MAA |
| | 3.3 | ±20% | A | 0.5 | 6 | 4.5 | 493-2358-1-ND | 1.35 | 11.55 | 493-2358-2-ND | 2,000 | 54.87/M | F931A335MAA |
| | 4.7 | ±20% | A | 0.5 | 6 | 4.0 | 493-2361-1-ND | 1.28 | 10.98 | 493-2361-2-ND | 2,000 | 52.14/M | F931A475MAA |
| | 10 | ±20% | A | 1.0 | 6 | 3.0 | 493-2351-1-ND | 1.22 | 10.45 | 493-2351-2-ND | 2,000 | 49.66/M | F931A106MAA |
| | 10 | ±20% | B | 1.0 | 6 | 2.1 | 493-2352-1-ND | 1.74 | 14.95 | 493-2352-2-ND | 2,000 | 71.01/M | F931A106MBA |
| | 15 | ±20% | B | 1.5 | 6 | 2.0 | 493-2354-1-ND | 1.55 | 13.31 | 493-2354-2-ND | 2,000 | 63.16/M | F931A156MBA |
| | 22 | ±20% | B | 2.2 | 8 | 1.9 | 493-2357-1-ND | 1.59 | 13.65 | 493-2357-2-ND | 2,000 | 64.82/M | F931A226MBA |
| | 33 | ±20% | B | 3.3 | 8 | 1.4 | 493-2359-1-ND | 2.53 | 21.72 | 493-2359-2-ND | 2,000 | 97.74/M | F931A336MBA |
| | 33 | ±20% | C | 3.3 | 6 | 1.1 | 493-2360-1-ND | 3.68 | 31.57 | 493-2360-2-ND | 500 | 89.46 | F931A336MCC |
| | 47 | ±20% | C | 4.7 | 8 | 0.9 | 493-2362-1-ND | 3.92 | 33.61 | 493-2362-2-ND | 500 | 95.23 | F931A476MCC |
| 16 | 6.8 | ±20% | N | 6.8 | 6 | 0.6 | 493-2363-1-ND | 4.78 | 41.88 | 493-2363-2-ND | 500 | 135.66 | F931A86MNC |
| | 100 | ±20% | N | 10.0 | 10 | 0.6 | 493-2363-1-ND | 6.16 | 52.79 | 493-2363-2-ND | 500 | 149.59 | F931A107MNC |
| | 150 | ±20% | N | 15.0 | 10 | 0.6 | 493-2365-1-ND | 7.34 | 62.94 | 493-2365-2-ND | 500 | 167.83 | F931A157MNC |
| | 1.5 | ±20% | A | 0.5 | 4 | 7.5 | 493-2364-1-ND | 1.35 | 11.55 | 493-2364-2-ND | 2,000 | 54.87/M | F931C105MAA |
| | 1.5 | ±20% | A | 0.5 | 6 | 6.0 | 493-2366-1-ND | 1.35 | 11.54 | 493-2366-2-ND | 2,000 | 54.83/M | F931C155MAA |
| | 2.2 | ±20% | A | 0.5 | 6 | 5.0 | 493-2368-1-ND | 1.28 | 10.98 | 493-2368-2-ND | 2,000 | 52.14/M | F931C225MAA |
| | 3.3 | ±20% | A | 0.5 | 6 | 4.5 | 493-2370-1-ND | 1.28 | 10.98 | 493-2370-2-ND | 2,000 | 52.14/M | F931C335MAA |
| | 4.7 | ±20% | A | 0.8 | 6 | 4.0 | 493-2372-1-ND | 1.28 | 10.98 | 493-2372-2-ND | 2,000 | 52.14/M | F931C475MAA |
| | 6.8 | ±20% | A | 1.1 | 6 | 3.5 | 493-2374-1-ND | 1.47 | 12.57 | 493-2374-2-ND | 2,000 | 59.72/M | F931C685MAA |
| | 6.8 | ±20% | B | 1.1 | 6 | 2.5 | 493-2375-1-ND | 1.74 | 14.95 | 493-2375-2-ND | 2,000 | 71.01/M | F931C685MBA |
| 20 | 10 | ±20% | B | 1.1 | 6 | 2.0 | 493-2365-1-ND | 1.82 | 15.63 | 493-2365-2-ND | 2,000 | 70.33/M | F931C106MBA |
| | 15 | ±20% | B | 2.4 | 8 | 2.0 | 493-2367-1-ND | 1.98 | 16.99 | 493-2367-2-ND | 2,000 | 76.45/M | F931C156MBA |
| | 22 | ±20% | C | 3.5 | 6 | 1.1 | 493-2369-1-ND | 3.68 | 31.57 | 493-2369-2-ND | 500 | 89.46 | F931C226MCC |
| | 33 | ±20% | N | 7.3 | 8 | 1.1 | 493-2371-1-ND | 3.92 | 33.61 | 493-2371-2-ND | 500 | 95.23 | F931C336MCC |
| | 47 | ±20% | N | 5.3 | 6 | 0.7 | 493-2373-1-ND | 5.31 | 45.51 | 493-2373-2-ND | 500 | 128.92 | F931C476MCC |
| | 68 | ±20% | N | 10.9 | 8 | 0.6 | 493-2376-1-ND | 6.26 | 53.66 | 493-2376-2-ND | 500 | 152.03 | F931C686MNC |
| | 1.5 | ±20% | A | 0.5 | 6 | 6.3 | 493-2378-1-ND | 1.35 | 11.55 | 493-2378-2-ND | 2,000 | 54.87/M | F931D155MAA |
| | 2.2 | ±20% | A | 0.5 | 6 | 5.0 | 493-2380-1-ND | 1.07 | 9.15 | 493-2380-2-ND | 2,000 | 43.56/M | F931D225MAA |
| | 3.3 | ±20% | A | 0.7 | 6 | 4.5 | 493-2382-1-ND | 1.66 | 14.27 | 493-2382-2-ND | 2,000 | 67.79/M | F931D335MAA |
| | 4.7 | ±20% | A | 0.9 | 6 | 4.0 | 493-2384-1-ND | 2.08 | 17.82 | 493-2384-2-ND | 2,000 | 80.21/M | F931D475MAA |
| 25 | 4.7 | ±20% | B | 0.9 | 6 | 2.8 | 493-2385-1-ND | 2.11 | 18.03 | 493-2385-2-ND | 2,000 | 81.15/M | F931D475MBA |
| | 6.8 | ±20% | B | 1.4 | 6 | 2.5 | 493-2386-1-ND | 2.22 | 19.03 | 493-2386-2-ND | 2,000 | 85.62/M | F931D685MBA |
| | 10 | ±20% | B | 2.0 | 6 | 2.1 | 493-2377-1-ND | 2.91 | 24.93 | 493-2377-2-ND | 2,000 | 112.21/M | F931D106MBA |
| | 15 | ±20% | C | 3.0 | 6 | 1.2 | 493-2379-1-ND | 3.68 | 31.57 | 493-2379-2-ND | 500 | 89.46 | F931D156MCC |
| | 22 | ±20% | C | 4.4 | 8 | 1.1 | 493-2381-1-ND | 3.92 | 33.61 | 493-2381-2-ND | 500 | 95.23 | F931D226MCC |
| | 33 | ±20% | N | 6.6 | 6 | 0.7 | 493-2383-1-ND | 5.58 | 47.88 | 493-2383-2-ND | 500 | 135.66 | F931D336MNC |
| | .68 | ±20% | A | 0.5 | 4 | 7.6 | 493-2394-1-ND | 1.35 | 11.55 | 493-2394-2-ND | 2,000 | 54.87/M | F931E684MAA |
| | 1 | ±20% | A | 0.5 | 4 | 7.5 | 493-2387-1-ND | 1.35 | 11.55 | 493-2387-2-ND | 2,000 | 54.87/M | F931E105MAA |
| | 1.5 | ±20% | A | 0.5 | 6 | 6.7 | 493-2389-1-ND | 1.39 | 11.89 | 493-2389-2-ND | 2,000 | 56.49/M | F931E155MAA |
| | 2.2 | ±20% | A | 0.6 | 6 | 6.3 | 493-2390-1-ND | 1.47 | 12.57 | 493-2390-2-ND | 2,000 | 59.72/M | F931E225MAA |
| 3.3 | ±20% | B | 0.8 | 6 | 3.1 | 493-2392-1-ND | 1.85 | 15.86 | 493-2392-2-ND | 2,000 | 71.15/M | F931E335MBA | |
| 35 | 4.7 | ±20% | B | 1.2 | 6 | 2.8 | 493-2393-1-ND | 2.26 | 19.37 | 493-2393-2-ND | 2,000 | 87.16/M | F931E475MBA |
| | 6.8 | ±20% | C | 1.7 | 6 | 1.8 | 493-2395-1-ND | 2.84 | 24.33 | 493-2395-2-ND | 500 | 72.96 | F931E685MCC |
| | 10 | ±20% | C | 2.5 | 6 | 1.5 | 493-2388-1-ND | 3.68 | 31.57 | 493-2388-2-ND | 500 | 89.46 | F931E106MCC |
| | 22 | ±20% | N | 5.5 | 6 | 0.7 | 493-2391-1-ND | 5.47 | 46.86 | 493-2391-2-ND | 500 | 132.78 | F931E226MNC |
| | .47 | ±20% | A | 0.5 | 4 | 10.0 | 493-2402-1-ND | 1.13 | 9.63 | 493-2402-2-ND | 2,000 | 45.74/M | F931V474MAA |
| | .68 | ±20% | A | 0.5 | 4 | 7.6 | 493-2404-1-ND | 1.35 | 11.55 | 493-2404-2-ND | 2,000 | 54.87/M | F931V684MAA |
| 6.3 | 1 | ±20% | A | 0.5 | 4 | 7.5 | 493-2396-1-ND | 1.39 | 11.89 | 493-2396-2-ND | 2,000 | 56.49/M | F931V105MAA |
| | 1.5 | ±20% | A | 0.5 | 6 | 7.5 | 493-2398-1-ND | 1.07 | 9.15 | | | | |

nichicon Solid Tantalum Electrolytic Chip Capacitors (SMT) (Cont.)



| Rated Voltage | Cap. (µF) | Capacitance Tolerance | Case Size | Leakage Current (µA) | Dissipation Factor (% @120Hz) | E.S.R. (Ω @100kHz) | Digi-Key Part No. | Cut Tape Pricing | | Digi-Key Part No. | Tape and Reel | | Nichicon Part No. | |
|--------------------------------------|-----------|-----------------------|-----------|----------------------|-------------------------------|--------------------|-------------------|------------------|--------|-------------------|---------------|----------|-------------------|-------------|
| | | | | | | | | 10 | 100 | | Qty. | Pricing | | |
| F91 - Low ESR Series | | | | | | | | | | | | | | |
| 6.3 | 100 | ±20% | C | 6.3 | 10 | .250 | 493-2309-1-ND | 7.86 | 67.40 | 493-2309-2-ND | 500 | 179.74 | F910J107MCC | |
| | 150 | ±20% | N | 9.5 | 10 | .100 | 493-2310-1-ND | 11.70 | 100.23 | 493-2310-2-ND | 500 | 267.28 | F910J157MNC | |
| | 220 | ±20% | N | 13.9 | 10 | .100 | 493-2311-1-ND | 11.92 | 102.19 | 493-2311-2-ND | 500 | 272.51 | F910J227MNC | |
| 10 | 47 | ±20% | C | 4.7 | 8 | .400 | 493-2314-1-ND | 7.86 | 67.40 | 493-2314-2-ND | 500 | 179.74 | F911A476MCC | |
| | 100 | ±20% | N | 10 | 10 | .100 | 493-2312-1-ND | 11.70 | 100.23 | 493-2312-2-ND | 500 | 267.28 | F911A107MNC | |
| | 150 | ±20% | N | 15.0 | 10 | .100 | 493-2313-1-ND | 11.92 | 102.19 | 493-2313-2-ND | 500 | 272.51 | F911A157MNC | |
| 16 | 33 | ±20% | C | 5.3 | 8 | .400 | 493-2315-1-ND | 7.86 | 67.40 | 493-2315-2-ND | 500 | 179.74 | F911C336MCC | |
| | 47 | ±20% | N | 7.5 | 6 | .150 | 493-2316-1-ND | 10.52 | 90.17 | 493-2316-2-ND | 500 | 240.45 | F911C476MNC | |
| | 15 | ±20% | C | 3 | 6 | .450 | 493-2317-1-ND | 7.86 | 67.40 | 493-2317-2-ND | 500 | 179.74 | F911D156MCC | |
| 20 | 33 | ±20% | N | 6.6 | 6 | .200 | 493-2318-1-ND | 11.70 | 100.23 | 493-2318-2-ND | 500 | 267.28 | F911D336MNC | |
| | 10 | ±20% | C | 2.5 | 6 | .450 | 493-2319-1-ND | 9.73 | 83.37 | 493-2319-2-ND | 500 | 222.33 | F911E106MCC | |
| | 22 | ±20% | N | 5.5 | 6 | .200 | 493-2320-1-ND | 11.70 | 100.23 | 493-2320-2-ND | 500 | 267.28 | F911E226MNC | |
| 25 | 33 | ±20% | N | 8.3 | 8 | .200 | 493-2321-1-ND | 9.74 | 83.53 | 493-2321-2-ND | 500 | 222.88 | F911E336MNC | |
| | 6.8 | ±20% | C | 2.4 | 6 | .600 | 493-2325-1-ND | 7.86 | 67.40 | 493-2325-2-ND | 500 | 179.74 | F911V685MCC | |
| | 10 | ±20% | N | 3.5 | 6 | .300 | 493-2322-1-ND | 11.70 | 100.23 | 493-2322-2-ND | 500 | 267.28 | F911V106MNC | |
| 35 | 15 | ±20% | N | 5.3 | 6 | .300 | 493-2323-1-ND | 11.70 | 100.23 | 493-2323-2-ND | 500 | 267.28 | F911V156MNC | |
| | 22 | ±20% | N | 7.7 | 8 | .300 | 493-2324-1-ND | 11.70 | 100.23 | 493-2324-2-ND | 500 | 267.28 | F911V226MNC | |
| | 15 | ±20% | N | 7.7 | 8 | .300 | 493-2324-1-ND | 11.70 | 100.23 | 493-2324-2-ND | 500 | 267.28 | F911V226MNC | |
| F92 - Compact Series | | | | | | | | | | | | | | |
| 4 | 2.2 | ±20% | P | 0.5 | 8 | 12.0 | 493-2326-1-ND | 2.06 | 17.67 | 493-2326-2-ND | 3,000 | 79.51/M | F920G225MPA | |
| | 22 | ±20% | P | 0.9 | 20 | 5.0 | 493-2327-1-ND | 3.02 | 25.87 | 493-2327-2-ND | 3,000 | 116.44/M | F920G226MPA | |
| 6.3 | 1.5 | ±20% | P | 0.5 | 8 | 12.0 | 493-2329-1-ND | 2.06 | 17.67 | 493-2329-2-ND | 3,000 | 79.51/M | F920J155MPA | |
| | 10 | ±20% | P | 0.6 | 10 | 6.0 | 493-2328-1-ND | 2.90 | 24.83 | 493-2328-2-ND | 3,000 | 111.73/M | F920J106MPA | |
| 10 | 1 | ±20% | P | 0.5 | 8 | 12.0 | 493-2330-1-ND | 2.32 | 19.86 | 493-2330-2-ND | 3,000 | 89.39/M | F921A105MPA | |
| | 2.2 | ±20% | P | 0.5 | 8 | 12.0 | 493-2331-1-ND | 3.99 | 34.24 | 493-2331-2-ND | 3,000 | 150.65/M | F921A225MPA | |
| | 3.3 | ±20% | P | 0.5 | 8 | 12.0 | 493-2332-1-ND | 2.93 | 25.14 | 493-2332-2-ND | 3,000 | 113.15/M | F921A335MPA | |
| | 4.7 | ±20% | P | 0.5 | 8 | 6.0 | 493-2333-1-ND | 1.94 | 16.62 | 493-2333-2-ND | 3,000 | 74.79/M | F921A475MPA | |
| 16 | .68 | ±20% | P | 0.5 | 8 | 12.0 | 493-2335-1-ND | 2.14 | 18.35 | 493-2335-2-ND | 3,000 | 82.57/M | F921C684MPA | |
| | 1 | ±20% | P | 0.5 | 8 | 12.0 | 493-2334-1-ND | 2.18 | 18.69 | 493-2334-2-ND | 3,000 | 84.10/M | F921C105MPA | |
| | 0.1 | ±20% | A | 0.5 | 4 | 10.0 | 493-2336-1-ND | 1.50 | 12.91 | 493-2336-2-ND | 2,500 | 61.33/M | F921V104MAA | |
| 35 | .15 | ±20% | A | 0.5 | 4 | 10.0 | 493-2337-1-ND | 1.26 | 10.76 | 493-2337-2-ND | 2,500 | 50.82/M | F921V154MAA | |
| | .22 | ±20% | A | 0.5 | 4 | 10.0 | 493-2338-1-ND | 1.50 | 12.85 | 493-2338-2-ND | 2,500 | 61.04/M | F921V224MAA | |
| | .33 | ±20% | A | 0.5 | 4 | 10.0 | 493-2339-1-ND | 1.31 | 11.24 | 493-2339-2-ND | 2,500 | 53.73/M | F921V334MAA | |
| | .33 | ±20% | A | 0.5 | 4 | 10.0 | 493-2339-1-ND | 1.31 | 11.24 | 493-2339-2-ND | 2,500 | 53.73/M | F921V334MAA | |
| F97 - High Reliability Series | | | | | | | | | | | | | | |
| 6.3 | 3.3 | ±20% | A | 0.5 | 6 | 4.5 | 493-2407-1-ND | 1.50 | 12.91 | 493-2407-2-ND | 2,000 | 61.33/M | F970J335MAA | |
| | 6.8 | ±20% | B | 0.5 | 6 | 2.5 | 493-2409-1-ND | 2.45 | 20.97 | 493-2409-2-ND | 2,000 | 94.38/M | F970J685MBA | |
| | 22 | ±20% | C | 1.4 | 6 | 1.1 | 493-2406-1-ND | 5.34 | 45.74 | 493-2406-2-ND | 500 | 129.59 | F970J226MCC | |
| | 47 | ±20% | N | 3.0 | 6 | 0.7 | 493-2408-1-ND | 5.40 | 46.28 | 493-2408-2-ND | 500 | 131.04 | F970J476MNC | |
| | 68 | ±20% | N | 4.3 | 6 | 0.6 | 493-2410-1-ND | 4.88 | 41.82 | 493-2410-2-ND | 500 | 118.34 | F970J686MNC | |
| 10 | 2.2 | ±20% | A | 0.5 | 6 | 5.0 | 493-2412-1-ND | 2.60 | 22.26 | 493-2412-2-ND | 2,000 | 100.16/M | F971A225MAA | |
| | 4.7 | ±20% | B | 0.5 | 6 | 2.8 | 493-2414-1-ND | 2.45 | 20.97 | 493-2414-2-ND | 2,000 | 94.38/M | F971A475MBA | |
| | 15 | ±20% | C | 1.5 | 6 | 1.2 | 493-2411-1-ND | 5.34 | 45.74 | 493-2411-2-ND | 500 | 129.59 | F971A156MCC | |
| | 33 | ±20% | N | 3.3 | 6 | 0.7 | 493-2413-1-ND | 6.48 | 55.54 | 493-2413-2-ND | 500 | 148.10 | F971A336MNC | |
| | 47 | ±20% | N | 4.7 | 6 | 0.7 | 493-2415-1-ND | 5.85 | 50.18 | 493-2415-2-ND | 500 | 142.18 | F971A476MNC | |
| 16 | 1.5 | ±20% | A | 0.5 | 4 | 7.5 | 493-2416-1-ND | 2.86 | 24.52 | 493-2416-2-ND | 2,000 | 110.32/M | F971C105MAA | |
| | 3.3 | ±20% | A | 0.5 | 4 | 6.3 | 493-2418-1-ND | 3.26 | 28.16 | 493-2418-2-ND | 2,000 | 50.82/M | F971C155MAA | |
| | 4.7 | ±20% | B | 0.8 | 6 | 3.1 | 493-2420-1-ND | 2.93 | 25.17 | 493-2420-2-ND | 2,000 | 113.26/M | F971C335MBA | |
| | 10 | ±20% | C | 1.6 | 6 | 2.8 | 493-2422-1-ND | 2.58 | 22.11 | 493-2422-2-ND | 2,000 | 99.50/M | F971C475MBA | |
| | 33 | ±20% | N | 3.5 | 6 | 1.5 | 493-2417-1-ND | 5.34 | 45.74 | 493-2417-2-ND | 500 | 129.59 | F971C106MCC | |
| 20 | .68 | ±20% | A | 0.5 | 4 | 7.6 | 493-2425-1-ND | 2.98 | 20.43 | — | — | — | — | F971D684MAA |
| | 2.2 | ±20% | B | 0.5 | 6 | 3.8 | 493-2424-1-ND | 2.93 | 25.17 | 493-2424-2-ND | 2,000 | 113.26/M | F971D225MBA | |
| | 6.8 | ±20% | C | 1.4 | 6 | 1.8 | 493-2426-1-ND | 4.45 | 38.12 | 493-2426-2-ND | 500 | 108.17 | F971D685MCC | |
| | 15 | ±20% | N | 3.0 | 6 | 0.7 | 493-2423-1-ND | 5.40 | 46.28 | 493-2423-2-ND | 500 | 131.04 | F971D156MNC | |
| | .47 | ±20% | A | 0.5 | 4 | 10.0 | 493-2429-1-ND | 2.38 | 20.43 | 493-2429-2-ND | 2,000 | 92.20/M | F971E474MAA | |
| 25 | 1.5 | ±20% | B | 0.5 | 4 | 4.0 | 493-2428-1-ND | 2.93 | 25.17 | 493-2428-2-ND | 2,000 | 113.26/M | F971E155MBA | |
| | 4.7 | ±20% | C | 1.2 | 6 | 1.8 | 493-2430-1-ND | 5.34 | 45.74 | 493-2430-2-ND | 500 | 129.59 | F971E475MCC | |
| | 10 | ±20% | N | 2.5 | 6 | 1.0 | 493-2427-1-ND | 6.48 | 55.54 | 493-2427-2-ND | 500 | 148.10 | F971E106MNC | |
| | .15 | ±20% | A | 0.5 | 4 | 15.0 | 493-2431-1-ND | 2.86 | 24.52 | 493-2431-2-ND | 2,000 | 110.32/M | F971V104MAA | |
| | .15 | ±20% | A | 0.5 | 4 | 15.0 | 493-2433-1-ND | 2.86 | 20.43 | 493-2433-2-ND | 2,000 | 92.20/M | F971V154MAA | |
| 35 | .22 | ±20% | A | 0.5 | 4 | 12.0 | 493-2435-1-ND | 2.38 | 20.43 | 493-2435-2-ND | 2,000 | 92.20/M | F971V224MAA | |
| | .33 | ±20% | A | 0.5 | 4 | 12.0 | 493-2437-1-ND | 2.86 | 24.52 | 493-2437-2-ND | 2,000 | 110.32/M | F971V334MAA | |
| | .47 | ±20% | B | 0.5 | 4 | 5.0 | 493-2439-1-ND | 2.45 | 20.97 | 493-2439-2-ND | 2,000 | 94.38/M | F971V474MBA | |
| | .68 | ±20% | B | 0.5 | 4 | 5.0 | 493-2441-1-ND | 2.93 | 25.17 | 493-2441-2-ND | 2,000 | 113.26/M | F971V684MBA | |
| | 1 | ±20% | B | 0.5 | 4 | 4.0 | 493-2432-1-ND | 2.93 | 25.17 | 493-2432-2-ND | 2,000 | 113.26/M | F971V105MBA | |
| | 1.5 | ±20% | C | 0.5 | 4 | 2.0 | 493-2434-1-ND | 3.20 | 27.44 | 493-2434-2-ND | 750 | 109.99 | F971V155MCMBA | |
| | 2.2 | ±20% | C | 0.8 | 6 | 2.0 | 493-2436-1-ND | 4.57 | 39.20 | 493-2436-2-ND | 500 | 111.08 | F971V225MCC | |
| | 3.3 | ±20% | C | 1.2 | 6 | 2.0 | 493-2438-1-ND | 4.45 | 38.12 | 493-2438-2-ND | 500 | 108.17 | F971V335MCC | |
| | 4.7 | ±20% | N | 1.6 | 6 | 1.0 | 493-2440-1-ND | 6.29 | 53.92 | 493-2440-2-ND | 500 | 152.77 | F971V475MNC | |
| | 6.8 | ±20% | N | 2.4 | 6 | 1.0 | 493-2442-1-ND | 6.48 | 55.54 | 493-2442-2-ND | 500 | 148.10 | F971V685MNC | |

F

Solid Tantalum Electrolytic Chip Capacitors (SMT) — Frameless™



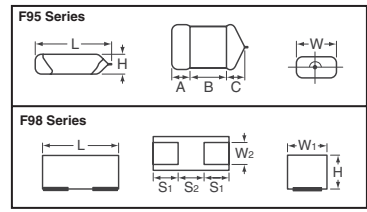
Features:
F95 Series: • Low profile, small rectangular conformal coated chip • Low ESR/impedance, excellent high frequency characteristics • Soldering heat resistance
F98 Series: • Small and low profile resin molded chip • High density mounting • High capacitance

Specification:
 • Operating Temperature Range: -55°C - 125°C

Applications:
 • Mobile phones • Mobile audio players • USB drives
 • Flash memory cards • PCMCIA/PC cards • Medical
 • Modems • MP3 players

| Case Code | F95 Series — Dimensions in mm | | | | | |
|-----------|-------------------------------|-----------|----------|----------|----------|----------|
| | L | W | H | A | B | C |
| P | 2.2 ±0.3 | 1.25 ±0.3 | 1.0 ±0.2 | 0.6 ±0.3 | 0.8 ±0.3 | 0.8 ±0.3 |
| Q | 3.2 ±0.2 | 1.6 ±0.2 | 0.8 ±0.2 | 0.8 ±0.2 | 1.2 ±0.2 | 0.8 ±0.2 |
| S | 3.2 ±0.3 | 1.6 ±0.3 | 1.0 ±0.2 | 0.8 ±0.3 | 1.2 ±0.3 | 0.8 ±0.3 |
| A | 3.2 ±0.3 | 1.7 ±0.3 | 1.4 ±0.2 | 0.8 ±0.3 | 1.2 ±0.3 | 0.8 ±0.3 |
| T | 3.5 ±0.2 | 2.7 ±0.2 | 1.0 ±0.2 | 0.8 ±0.2 | 1.2 ±0.2 | 1.1 ±0.2 |
| B | 3.3 ±0.3 | 2.7 ±0.3 | 1.8 ±0.2 | 0.8 ±0.3 | 1.2 ±0.3 | 1.1 ±0.3 |

| Case Code | F98 Series — Dimensions in mm | | | | | |
|-----------|-------------------------------|-----------|-----------|----------|----------|----------|
| | L | W1 | W2 | H | S1 | S2 |
| M | 1.6 ±0.1 | 0.85 ±0.1 | 0.65 ±0.1 | 0.8 ±0.1 | 0.5 ±0.1 | 0.6 ±0.1 |
| S | 2.0 ±0.1 | 1.25 ±0.1 | 0.9 ±0.1 | 0.8 ±0.1 | 0.5 ±0.1 | 1.0 ±0.1 |





F

| Rated Voltage | Cap. (µF) | Capacitance Tolerance | Case Size | Leakage Current (µA) | Dissipation Factor (% @ 120Hz) | E.S.R. (Ω @ 100kHz) | Digi-Key Part No. | Cut Tape Pricing | | Digi-Key Part No. | Tape and Reel Pricing | | Nichicon Part No. | |
|---------------|-----------|-----------------------|-----------|----------------------|--------------------------------|---------------------|-------------------|------------------|---------------|-------------------|-----------------------|----------------|-------------------|----------------|
| | | | | | | | | 10 | 100 | | Qty. | Pricing | | |
| 4 | 47 | ±20% | A | 1.9 | 8 | 0.6 | 493-2892-1-ND | 4.22 | 36.15 | 493-2892-2-ND | 2,500 | 159.00/M | F950G476MAAAQ2 | |
| | 68 | ±20% | S | 2.7 | 10 | 0.8 | 493-2893-1-ND | 4.93 | 42.25 | 493-2893-2-ND | 2,500 | 185.86/M | F950G686MSAAQ2 | |
| | 68 | ±20% | A | 2.7 | 10 | 0.5 | 493-2894-1-ND | 4.37 | 37.46 | 493-2894-2-ND | 2,500 | 164.81/M | F950G686MAAAQ2 | |
| | 100 | ±20% | S | 4.0 | 14 | 0.8 | 493-2895-1-ND | 5.62 | 48.13 | 493-2895-2-ND | 2,500 | 212.00/M | F950G107MSAAQ2 | |
| | 100 | ±20% | A | 4.0 | 12 | 0.5 | 493-2896-1-ND | 5.62 | 48.13 | 493-2896-2-ND | 2,500 | 212.00/M | F950G107MAAAQ2 | |
| | 150 | ±20% | B | 6.0 | 14 | 0.4 | 493-2897-1-ND | 10.52 | 90.17 | 493-2897-2-ND | 2,000 | 390.74/M | F950G157MBAAQ2 | |
| | 220 | ±20% | S | 8.8 | 25 | 0.8 | 493-2898-1-ND | 6.74 | 57.76 | 493-2898-2-ND | 2,500 | 250.30/M | F950G227MSAAQ2 | |
| | 220 | ±20% | T | 8.8 | 25 | 0.6 | 493-2899-1-ND | 9.21 | 78.93 | 493-2899-2-ND | 2,500 | 342.04/M | F950G227MTAAQ2 | |
| 220 | ±20% | B | 8.8 | 16 | 0.4 | 493-2900-1-ND | 12.71 | 108.90 | 493-2900-2-ND | 2,000 | 463.19/M | F950G227MBAAQ2 | | |
| 6.3 | 10 | ±20% | P | 0.6 | 8 | 2.0 | 493-2901-1-ND | 3.30 | 28.23 | 493-2901-2-ND | 3,000 | 127.02/M | F950J106MPAAQ2 | |
| | 15 | ±20% | P | 0.9 | 10 | 1.8 | 493-2902-1-ND | 3.59 | 30.71 | 493-2902-2-ND | 3,000 | 135.04/M | F950J156MPAAQ2 | |
| | 22 | ±20% | P | 1.4 | 14 | 1.1 | 493-2903-1-ND | 3.69 | 31.58 | 493-2903-2-ND | 3,000 | 138.67/M | F950J226MPAAQ2 | |
| | 33 | ±20% | P | 2.1 | 14 | 1.1 | 493-2904-1-ND | 4.52 | 38.68 | 493-2904-2-ND | 3,000 | 170.20/M | F950J336MPAAQ2 | |
| | 33 | ±20% | Q | 2.1 | 10 | 2.0 | 493-2905-1-ND | 4.20 | 35.94 | 493-2905-2-ND | 2,500 | 158.27/M | F950J336MQAAQ2 | |
| | 33 | ±20% | S | 2.1 | 10 | 1.0 | 493-2906-1-ND | 4.76 | 40.73 | 493-2906-2-ND | 2,500 | 179.33/M | F950J336MSAAQ2 | |
| | 33 | ±20% | A | 2.1 | 8 | 0.8 | 493-2907-1-ND | 3.84 | 32.69 | 493-2907-2-ND | 2,500 | 144.49/M | F950J336MAAAQ2 | |
| | 47 | ±20% | P | 3.0 | 20 | 1.1 | 493-2908-1-ND | 3.76 | 32.23 | 493-2908-2-ND | 3,000 | 141.57/M | F950J476MPAAQ2 | |
| | 47 | ±20% | Q | 3.0 | 10 | 1.1 | 493-2909-1-ND | 3.94 | 33.76 | 493-2909-2-ND | 2,500 | 148.84/M | F950J476MQAAQ2 | |
| | 47 | ±20% | S | 3.0 | 10 | 0.9 | 493-2910-1-ND | 5.92 | 50.70 | 493-2910-2-ND | 2,500 | 223.10/M | F950J476MSAAQ2 | |
| | 47 | ±20% | A | 3.0 | 10 | 0.6 | 493-2911-1-ND | 5.37 | 46.00 | 493-2911-2-ND | 2,500 | 202.40/M | F950J476MAAAQ2 | |
| | 68 | ±20% | S | 4.3 | 14 | 0.9 | 493-2912-1-ND | 6.71 | 57.50 | 493-2912-2-ND | 2,500 | 249.17/M | F950J686MSAAQ2 | |
| | 68 | ±20% | A | 4.3 | 12 | 0.5 | 493-2913-1-ND | 5.75 | 49.31 | 493-2913-2-ND | 2,500 | 216.97/M | F950J686MAAAQ2 | |
| | 100 | ±20% | A | 6.3 | 14 | 0.5 | 493-2914-1-ND | 7.56 | 64.82 | 493-2914-2-ND | 2,500 | 280.88/M | F950J107MAAAQ2 | |
| | 100 | ±20% | T | 6.3 | 14 | 0.6 | 493-2915-1-ND | 6.25 | 53.58 | 493-2915-2-ND | 2,500 | 235.75/M | F950J107MTAAQ2 | |
| | 100 | ±20% | B | 6.3 | 14 | 0.4 | 493-2916-1-ND | 10.55 | 90.43 | 493-2916-2-ND | 2,000 | 391.87/M | F950J107MBAAQ2 | |
| | 150 | ±20% | B | 9.5 | 18 | 0.4 | 493-2917-1-ND | 12.71 | 108.90 | 493-2917-2-ND | 2,000 | 463.19/M | F950J157MBAAQ2 | |
| | 220 | ±20% | B | 13.9 | 30 | 0.4 | 493-2918-1-ND | 15.25 | 130.68 | 493-2918-2-ND | 2,000 | 555.39/M | F950J227MBAAQ2 | |
| 10 | 3.3 | ±20% | P | 0.5 | 8 | 5.0 | 493-2919-1-ND | 2.11 | 18.08 | 493-2919-2-ND | 3,000 | 81.82/M | F951A335MPAAQ2 | |
| | 4.7 | ±20% | P | 0.5 | 8 | 4.0 | 493-2920-1-ND | 2.74 | 23.52 | 493-2920-2-ND | 3,000 | 105.85/M | F951A475MPAAQ2 | |
| | 6.8 | ±20% | P | 0.7 | 8 | 4.0 | 493-2921-1-ND | 2.74 | 23.52 | 493-2921-2-ND | 3,000 | 106.00/M | F951A685MPAAQ2 | |
| | 10 | ±20% | P | 1.0 | 8 | 3.0 | 493-2922-1-ND | 4.33 | 37.11 | 493-2922-2-ND | 3,000 | 163.30/M | F951A106MPAAQ2 | |
| | 15 | ±20% | P | 1.5 | 10 | 3.0 | 493-2923-1-ND | 4.42 | 37.90 | 493-2923-2-ND | 3,000 | 166.75/M | F951A156MPAAQ2 | |
| | 22 | ±20% | P | 2.2 | 14 | 3.0 | 493-2924-1-ND | 4.42 | 37.90 | 493-2924-2-ND | 3,000 | 166.75/M | F951A226MPAAQ2 | |
| | 22 | ±20% | Q | 2.2 | 10 | 2.0 | 493-2925-1-ND | 3.25 | 27.88 | 493-2925-2-ND | 2,500 | 125.60/M | F951A226MQAAQ2 | |
| | 22 | ±20% | S | 2.2 | 10 | 1.1 | 493-2926-1-ND | 4.73 | 40.51 | 493-2926-2-ND | 2,500 | 178.60/M | F951A226MSAAQ2 | |
| | 22 | ±20% | A | 2.2 | 6 | 0.9 | 493-2927-1-ND | 4.22 | 36.15 | 493-2927-2-ND | 2,500 | 159.00/M | F951A226MAAAQ2 | |
| | 33 | ±20% | S | 3.3 | 10 | 1.1 | 493-2928-1-ND | 5.92 | 50.70 | 493-2928-2-ND | 2,500 | 223.10/M | F951A336MSAAQ2 | |
| | 33 | ±20% | A | 3.3 | 10 | 0.8 | 493-2929-1-ND | 5.24 | 44.95 | 493-2929-2-ND | 2,500 | 197.80/M | F951A336MAAAQ2 | |
| | 47 | ±20% | A | 4.7 | 10 | 0.8 | 493-2930-1-ND | 6.07 | 52.01 | 493-2930-2-ND | 2,500 | 228.85/M | F951A476MAAAQ2 | |
| | 47 | ±20% | T | 4.7 | 12 | 0.8 | 493-2931-1-ND | 6.25 | 53.58 | 493-2931-2-ND | 2,500 | 235.75/M | F951A476MTAAQ2 | |
| | 47 | ±20% | B | 4.7 | 8 | 0.4 | 493-2932-1-ND | 6.07 | 52.01 | 493-2932-2-ND | 2,000 | 228.85/M | F951A476MBAAQ2 | |
| | 68 | ±20% | B | 6.8 | 12 | 0.4 | 493-2933-1-ND | 10.55 | 90.43 | 493-2933-2-ND | 2,000 | 391.87/M | F951A686MBAAQ2 | |
| | 100 | ±20% | B | 10.0 | 14 | 0.4 | 493-2934-1-ND | 15.25 | 130.68 | 493-2934-2-ND | 2,000 | 555.39/M | F951A107MBAAQ2 | |
| | 16 | 1.5 | ±20% | P | 0.5 | 8 | 8.0 | 493-2935-1-ND | 2.16 | 18.56 | 493-2935-2-ND | 3,000 | 83.51/M | F951C105MPAAQ2 |
| | | 2.2 | ±20% | P | 0.5 | 8 | 6.0 | 493-2936-1-ND | 1.81 | 15.46 | 493-2936-2-ND | 3,000 | 69.70/M | F951C155MPAAQ2 |
| 3.3 | | ±20% | P | 0.5 | 8 | 6.0 | 493-2937-1-ND | 2.11 | 18.08 | 493-2937-2-ND | 3,000 | 81.82/M | F951C225MPAAQ2 | |
| 4.7 | | ±20% | P | 0.8 | 10 | 4.0 | 493-2938-1-ND | 2.74 | 23.52 | 493-2938-2-ND | 3,000 | 105.85/M | F951C335MPAAQ2 | |
| 4.7 | | ±20% | P | 0.8 | 10 | 4.0 | 493-2939-1-ND | 2.74 | 23.52 | 493-2939-2-ND | 3,000 | 106.00/M | F951C475MPAAQ2 | |
| 10 | | ±20% | P | 1.6 | 10 | 4.0 | 493-2940-1-ND | 4.52 | 38.68 | 493-2940-2-ND | 3,000 | 170.20/M | F951C106MPAAQ2 | |
| 10 | | ±20% | Q | 1.6 | 8 | 3.0 | 493-2941-1-ND | 3.59 | 30.71 | 493-2941-2-ND | 2,500 | 135.04/M | F951C106MQAAQ2 | |
| 10 | | ±20% | S | 1.6 | 8 | 2.0 | 493-2942-1-ND | 4.15 | 35.50 | 493-2942-2-ND | 2,500 | 156.10/M | F951C106MSAAQ2 | |
| 10 | | ±20% | A | 1.6 | 6 | 1.4 | 493-2943-1-ND | 4.47 | 38.34 | 493-2943-2-ND | 2,500 | 168.44/M | F951C106MAAAQ2 | |
| 15 | | ±20% | A | 2.4 | 8 | 1.4 | 493-2944-1-ND | 4.73 | 40.51 | 493-2944-2-ND | 2,500 | 178.60/M | F951C156MAAAQ2 | |
| 20 | 22 | ±20% | Q | 3.5 | 12 | 3.0 | 493-2945-1-ND | 4.60 | 39.47 | 493-2945-2-ND | 2,500 | 173.65/M | F951C226MSAAQ2 | |
| | 22 | ±20% | A | 3.5 | 8 | 1.4 | 493-2946-1-ND | 5.26 | 45.08 | 493-2946-2-ND | 2,500 | 198.20/M | F951C226MAAAQ2 | |
| | 22 | ±20% | T | 3.5 | 8 | 1.4 | 493-2947-1-ND | 6.10 | 52.27 | 493-2947-2-ND | 2,500 | 230.00/M | F951C226MTAAQ2 | |
| | 22 | ±20% | B | 3.5 | 6 | 0.5 | 493-2948-1-ND | 5.24 | 44.95 | 493-2948-2-ND | 2,000 | 197.80/M | F951C226MBAAQ2 | |
| | 33 | ±20% | B | 5.3 | 8 | 0.5 | 493-2949-1-ND | 6.07 | 52.01 | 493-2949-2-ND | 2,000 | 228.85/M | F951C336MBAAQ2 | |
| | 47 | ±20% | B | 7.5 | 10 | 0.6 | 493-2950-1-ND | 10.55 | 90.43 | 493-2950-2-ND | 2,000 | 391.87/M | F951C476MBAAQ2 | |
| | 2.2 | ±20% | P | 0.5 | 6 | 6.0 | 493-2951-1-ND | 2.54 | 21.78 | 493-2951-2-ND | 3,000 | 98.01/M | F951D225MPAAQ2 | |
| | 2.2 | ±20% | S | 0.5 | 6 | 5.0 | 493-2952-1-ND | 2.47 | 21.17 | 493-2952-2-ND | 2,500 | 95.27/M | F951D225MSAAQ2 | |
| | 3.3 | ±20% | A | 0.7 | 6 | 2.0 | 493-2953-1-ND | 2.74 | 23.52 | 493-2953-2-ND | 2,500 | 106.00/M | F951D335MAAAQ2 | |
| | 4.7 | ±20% | S | 0.9 | 8 | 4.0 | 493-2954-1-ND | 4.15 | 35.50 | 493-2954-2-ND | 2,500 | 156.10/M | F951D475MSAAQ2 | |
| 4.7 | ±20% | A | 0.9 | 6 | 1.5 | 493-2955-1-ND | 4.33 | 37.11 | 493-2955-2-ND | 2,500 | 163.30/M | F951D475MAAAQ2 | | |
| 25 | 6.8 | ±20% | A | 2.4 | 8 | 1.5 | 493-2956-1-ND | 3.69 | 31.58 | 493-2956-2-ND | 2,500 | 138.67/M | F951D685MAAAQ2 | |
| | 10 | ±20% | A | 1.0 | 8 | 1.5 | 493-2957-1-ND | 5.01 | 42.91 | 493-2957-2-ND | 2,500 | 188.76/M | F951D106MAAAQ2 | |
| | 10 | ±20% | B | 2.0 | 6 | 0.8 | 493-2958-1-ND | 5.06 | 43.39 | 493-2958-2-ND | 2,000 | 190.90/M | F951D106MBAAQ2 | |
| | 22 | ±20% | B | 4.4 | 8 | 0.8 | 493-2959-1-ND | 5.24 | 44.95 | 493-2959-2-ND | 2,000 | 197.80/M | F951D226MBAAQ2 | |
| | 1 | ±20% | P | 0.5 | 6 | 8.0 | 493-2960-1-ND | 2.84 | 24.31 | 493-2960-2-ND | 3,000 | 109.38/M | F951E105MPAAQ2 | |
| | 1 | ±20% | S | 0.5 | 6 | 8.0 | 493-2961-1-ND | 1.90 | 16.33 | 493-2961-2-ND | 2,500 | 73.33/M | F951E105MSAAQ2 | |
| 35 | 1.5 | ±20% | S | 0.5 | 6 | 7.0 | 493-2962-1-ND | 2.06 | 17.64 | 493-2962-2-ND | 2,500 | 79.14/M | F951E155MSAAQ2 | |
| | 2.2 | ±20% | S | 0.6 | 6 | 7.0 | 493-2963-1-ND | 3.23 | 27.66 | 493-2963-2-ND | 2,500 | 124.15/M | F951E225MSAAQ2 | |
| | 2.2 | ±20% | A | 0.6 | 6 | 3.2 | 493-2964-1-ND | 2.74 | 23.52 | 493-2964-2-ND | 2,500 | 106.00/M | F951E225MAAAQ2 | |
| | 3.3 | ±20% | A | 0.8 | 6 | 2.8 | 493-2965-1-ND | 3.59 | 30.71 | 493-2965-2-ND | 2,500 | 135.04/M | F951E335MAAAQ2 | |
| | 4.7 | ±20% | S | 1.2 | 8 | 4.0 | 493-2966-1-ND | 4.15 | 35.50 | 493-2966-2-ND | 2,500 | 156.10/M | F951E475MSAAQ2 | |
| | 4.7 | ±20% | A | 1.2 | 8 | 2.0 | 493-2967-1-ND | 3.69 | 31.58 | 493-2967-2-ND | 2,500 | 138.67/M | F951E475MAAAQ2 | |
| 47 | 10 | ±20% | B | 2.5 | 6 | 0.9 | 493-2968-1-ND | 4.37 | 37.46 | 493-2968-2-ND | 2,000 | 164.80/M | F951E106MBAAQ2 | |
| | 1 | ±20% | | | | | | | | | | | | |