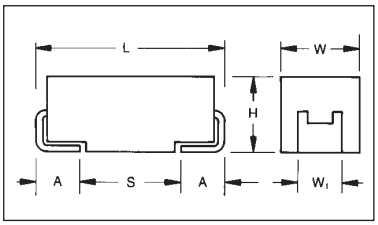
# TPS Series

## Low ESR

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power. TPS has been designed, manufactured, and preconditioned for optimum performance in typical power supply applications. By combining the latest improvements intantalum powder technology, improved manufacturing processes, and application specific preconditioning tests, AVX is able to provide a technologically superior alternative to the standard range.




For part marking see page 111

## CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | Dimension Low Profile | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H+0.20 (0.008) -0.10 (0.004) | $W_1$±0.20 (0.008) | A+0.30 (0.012) -0.20 (0.008) | S Min. |
|---|---|---|---|---|---|---|---|---|
| A | 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 | 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 | 6032-28 | – | 6.00 (0.236) | 3.20 (0.126) | 2.6 (0.102) | 2.20 (0.087) | 1.30 (0.051) | 2.90 (0.114) |
| D | 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 | 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) |
| R* | 2012-12 | R Case (1.20) | 2.05 (0.081) | 1.30 (0.051) | 1.20 (0.047) max. | 1.20 (0.047) | 0.50 (0.020) | 0.85 (0.033) |
| S** | 3216-12 | A Case (1.20) | 3.20 (0.126) | 1.60 (0.063) | 1.20 (0.047) max. | 1.20 (0.047) | 0.80 (0.031) | 1.10 (0.043) |
| T** | 3528-12 | B Case (1.20) | 3.50 (0.138) | 2.80 (0.110) | 1.20 (0.047) max. | 2.20 (0.087) | 0.80 (0.031) | 1.40 (0.055) |
| V | 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** | 6032-15 | C Case (1.50 | 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** | 7343-15 | D Case (1.50) | 7.30 (0.287) | 4.30 (0.169) | 1.50 (0.059) max. | 2.40 (0.094) | 1.30 (0.051) | 4.40 (0.173) |
| Y** | 7343-20 | D Case (2.00) | 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) |

$W_1$ dimension applies to the termination width for A dimensional area only.

*** 0805 Footprint Compatible ** Low Profile Versions of A & B & C & D Case**

## HOW TO ORDER

| TPS | C | 107 | M | 010 | R | 0100 |
|---|---|---|---|---|---|---|
| **Type** | **Case Size**<br>See table above | **Capacitor Code**<br>pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow) | **Tolerance**<br>K = ±10%<br>M = ±20% | **Rated DC Voltage**<br>002 = 2.5Vdc<br>004 = 4Vdc<br>006 = 6.3Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | **Packaging**<br>R = 7" T/R<br>S = 13" T/R<br>A = Gold Plating 7" Reel<br>B = Gold Plating 13" Reel<br>Y = Lead Free 7" Reel<br>P = Lead Free 13" Reel | **Maximum ESR in Milliohms**<br>See note below |

**NOTE:** The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalog limit post mounting.

## TECHNICAL SPECIFICATIONS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Technical Data: | All technical data relate to an ambient temperature of +25°C | | | | | | | | | |
| Capacitance Range: | 0.15µF to 1500µF | | | | | | | | | |
| Capacitance Tolerance: | ±10%; ±20% | | | | | | | | | |
| Rated Voltage ($V_R$) | ≦ +85°C: | 2.5 | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
| Category Voltage ($V_C$) | ≦ +125°C: | 1.7 | 2.7 | 4 | 7 | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage ($V_S$) | ≦ +85°C: | 3.3 | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge Voltage ($V_S$) | ≦ +125°C: | 2.2 | 3.4 | 5 | 8 | 13 | 16 | 20 | 28 | 40 |
| Temperature Range: | -55°C to +125°C | | | | | | | | | |
| Environmental Classification: | 55/125/56 (IEC 68-2) | | | | | | | | | |
| Reliability: | 1% per 1000 hours at 85°C, $V_R$ with 0.1Ω/V series impedance, 60% confidence level | | | | | | | | | |

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## CAPACITANCE AND RATED VOLTAGE, $V_R$ (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated Voltage DC ($V_R$) to 85°C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| µF | Code | 2.5V | 4V (G) | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.15 | 154 | | | | | | | | | A(9000) |
| 0.22 | 224 | | | | | | | | A(6000) | A(7000) |
| 0.33 | 334 | | | | | | | | A(6000) | |
| 0.47 | 474 | | | | | | | A(7000) | A(6000)<br>B(4000) | |
| 0.68 | 684 | | | | | | | A(6000) | A(6000) | |
| 1 | 105 | | | | R(9000) | | A(3000), R(6000)<br>S(6000), T(2000) | | A(3000)<br>B(2000) | C(2500) |
| 1.5 | 155 | | | | | | | A(3000)<br>B(1800) | B(2500) | C(1500,2000) |
| 2.2 | 225 | | | R(7000) | A(1800) | A(1800,3500)<br>T(2000) | A(3000) | B(900,1200,2500) | A(1500), B(750,<br>1500,2000), C(1000) | D(1200) |
| 3.3 | 335 | | | | T(1500) | A(3500) | A(2500)<br>B(1300) | A(1500)<br>B(750,1500,2000) | B(1000)<br>C(700) | D(800) |
| 4.7 | 475 | | | S(4000) | A(1400)<br>R(3000,5000) | A(2000)<br>B(800,1500) | A(1800)<br>B(750,1000) | B(700,900,1500) | B(700,1500)<br>C(600) | D(300,500,700) |
| 6.8 | 685 | | | A(1800) | A(1800)<br>T(1800) | A(1500)<br>B(600,1200) | B(600,1000)<br>C(700) | B(700)<br>C(500,600,700) | C(350)<br>D(150,400,500) | D(500,600) |
| 10 | 106 | | R(3000) | A(1500)<br>R(1000,1500,3000) | A(900,1800)<br>P(2000)<br>T(1000,2000) | B(500,800), C(500)<br>T(800,1000)<br>W(500,600) | B(500,1000)<br>C(500,700) | C(300,500) | D(125,300)<br>E(200) | E(400,500) |
| 15 | 156 | | | A(700,1500) | A(1000)<br>B(450,600) | B(500,800) | B(500)<br>C(400,450) | C(220,300)<br>D(100,300) | C(350,450)<br>D(100,300) | E(250) |
| 22 | 226 | | | A(500,900)<br>B(375,600)<br>S(900) | B(400,500,700)<br>C(300)<br>T(800) | B(400,600)<br>C(150,250,300,375)<br>W(500) | B(400,600)<br>C(100,150,400)<br>D(200,300) | C(275,400)<br>D(100,200,300) | D(125,200,<br>300,400)<br>E(125,200,300) | |
| 33 | 336 | | | A(600)<br>B(250,350,450,600)<br>T(800) | B(250,425,500,650)<br>C(150,375,500)<br>W(350) | B(350,500)<br>C(100,150,225,300)<br>D(200), W(140,175,<br>250,400,500)<br>Y(300,400) | C(300)<br>D(100,200) | D(100,200,300)<br>E(100,175,<br>200,300) | D(200,300)<br>E(100,250,300) | |
| 47 | 476 | | A(500) | B(250,350,500)<br>C(300) | B(250,350,500,650)<br>C(350)<br>D(100)<br>W(125,150,250) | C(110,350)<br>D(80,100,<br>150,200)<br>Y(250), X(180) | D(75,100,200)<br>E(70,125,150,<br>200,250) | D(125,150,250)<br>E(80,100,125) | E(200,250) | |
| 68 | 686 | | | B(250,350,500)<br>C(150,200)<br>W(110,125,250) | C(80,100,200,300)<br>D(100,150), Y(100,200)<br>W(100,150) | C(125,200)<br>D(70,100,150)<br>Y(200,250), X(150) | D(70,150,<br>200,300)<br>E(125,150,200) | E(125,200)<br>V(80,95,150,200) | | |
| 100 | 107 | B(200) | B(250,<br>350,500)<br>W(100) | B(250,400)<br>C(75,150)<br>Y(100)<br>W(100) | C(75,100,150,200)<br>D(50,65,80,125,150)<br>E(125)<br>Y(100,150,200)<br>X(85,150,200)<br>W(150) | D(60,100,<br>125,150)<br>E(55,100,<br>125,150)<br>Y(100,150,200) | D(85,100,150)<br>E(100,150,200)<br>V(60,85,100,200) | V(100) | | |
| 150 | 157 | B(150) | B(250)<br>C(70,80) | C(50,90,150,200,250)<br>D(50,125), Y(40) | D(50,85,100), E(100)<br>X(100), Y(100,150,200) | D(60,85,100,125,150)<br>E(100), V(45,75) | V(80) | | | |
| 220 | 227 | B(200,<br>600)<br>D(45) | D(40,50,100) | C(70,100,125,250)<br>D(50,100,125)<br>E(100)<br>Y(100,150) | D(50,100,150)<br>E(50,60,70,100,<br>125,150)<br>Y(150,200) | E(100,150)<br>V(50,75,<br>100,150) | | | | |
| 330 | 337 | | C(100)<br>D(35,45,100)<br>X(100) | D(45,50,70,100)<br>E(50,100,125,150)<br>V(100), Y(150) | D(50,65,100,150)<br>E(40,50,60,100)<br>V(40,60,100) | | | | | |
| 470 | 477 | D(35)<br>Y(100) | D(45,100)<br>E(35,45,100) | D(45,60,100,200)<br>E(45,50,60,100,200)<br>V(40,55,100) | E(45,50,60,100,200)<br>V(40,60,100) | | | | | |
| 680 | 687 | Y(100) | D(45,60,100)<br>E(40,60,100) | E(45,60,100)<br>V(35,40,50) | | | | | | |
| 1000 | 108 | E(30,40) | E(60)<br>V(25,35,40,50) | V(40,50) | | | | | | |
| 1500 | 158 | V(30,40) | V(50,75) | | | | | | | |

For C, D and E case ratings in TPS Series, ESR ratings are printed on capacitor side in the following format:
T x x x -where x x x is ESR limit in milliohms i.e. T100 represents max. ESR of 100 milliohms.

**ESR limits quoted in brackets (milliohms)**

**NOTE: The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalog limit post mounting.**

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSB107*002#0200 | B | 100 | 2.5 | 5 | 6 | 200 | 0.652 | 0.587 | 0.261 | 0.130 | 0.117 | 0.052 |
| TPSB157*002#0150 | B | 150 | 2.5 | 3 | 10 | 150 | 0.753 | 0.677 | 0.301 | 0.113 | 0.102 | 0.045 |
| TPSB227*002#0200 | B | 220 | 2.5 | 4.4 | 16 | 200 | 0.652 | 0.587 | 0.261 | 0.130 | 0.117 | 0.052 |
| TPSB227*002#0600 | B | 220 | 2.5 | 4.4 | 16 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 |
| TPSD227*002#0045 | D | 220 | 2.5 | 4.4 | 8 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSD477*002#0035 | D | 470 | 2.5 | 11.6 | 8 | 35 | 2.070 | 1.863 | 0.828 | 0.072 | 0.065 | 0.029 |
| TPSY477*002#0100 | Y | 470 | 2.5 | 11 | 12 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSY687*002#0100 | Y | 680 | 2.5 | 17 | 12 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSE108*002#0030 | E | 1000 | 2.5 | 20 | 14 | 30 | 2.345 | 2.111 | 0.938 | 0.070 | 0.063 | 0.028 |
| TPSE108*002#0040 | E | 1000 | 2.5 | 20 | 14 | 40 | 2.031 | 1.828 | 0.812 | 0.081 | 0.073 | 0.032 |
| TPSV158*002#0030 | V | 1500 | 2.5 | 30 | 20 | 30 | 2.887 | 2.598 | 1.155 | 0.087 | 0.078 | 0.035 |
| TPSV158*002#0040 | V | 1500 | 2.5 | 30 | 20 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSR106*004#3000 | R | 10 | 4 | 0.5 | 6 | 3000 | 0.135 | 0.122 | 0.049 | 0.405 | 0.364 | 0.162 |
| TPSA476*004#0500 | A | 47 | 4 | 1.9 | 8 | 500 | 0.387 | 0.348 | 0.155 | 0.194 | 0.175 | 0.078 |
| TPSB107*004#0250 | B | 100 | 4 | 4 | 8 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSB107*004#0350 | B | 100 | 4 | 4 | 8 | 350 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 |
| TPSB107*004#0500 | B | 100 | 4 | 4 | 8 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSW107*004#0100 | W | 100 | 4 | 4 | 6 | 100 | 0.949 | 0.854 | 0.379 | 0.095 | 0.085 | 0.038 |
| TPSB157*004#0250 | B | 150 | 4 | 6 | 10 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSC157*004#0070 | C | 150 | 4 | 6 | 6 | 70 | 1.254 | 1.128 | 0.501 | 0.088 | 0.079 | 0.035 |
| TPSC157*004#0080 | C | 150 | 4 | 6 | 6 | 80 | 1.173 | 1.055 | 0.469 | 0.094 | 0.084 | 0.038 |
| TPSD227*004#0040 | D | 220 | 4 | 8.8 | 8 | 40 | 1.936 | 1.743 | 0.775 | 0.077 | 0.070 | 0.031 |
| TPSD227*004#0050 | D | 220 | 4 | 8.8 | 8 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSD227*004#0100 | D | 220 | 4 | 8.8 | 8 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSC337*004#0100 | C | 330 | 4 | 13.2 | 8 | 100 | 1.049 | 0.944 | 0.420 | 0.105 | 0.094 | 0.042 |
| TPSD337*004#0035 | D | 330 | 4 | 13.2 | 8 | 35 | 2.070 | 1.863 | 0.828 | 0.072 | 0.065 | 0.029 |
| TPSD337*004#0045 | D | 330 | 4 | 13.2 | 8 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSD337*004#0100 | D | 330 | 4 | 13.2 | 8 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSX337*004#0100 | X | 330 | 4 | 13.2 | 8 | 100 | 1.000 | 0.900 | 0.400 | 0.100 | 0.090 | 0.040 |
| TPSD477*004#0045 | D | 470 | 4 | 18.8 | 12 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSD477*004#0100 | D | 470 | 4 | 18.8 | 12 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD687*004#0045 | D | 680 | 4 | 27.2 | 14 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSD687*004#0060 | D | 680 | 4 | 27.2 | 14 | 60 | 1.581 | 1.423 | 0.632 | 0.095 | 0.085 | 0.038 |
| TPSD687*004#0100 | D | 680 | 4 | 27.2 | 14 | 100 | 1.284 | 1.156 | 0.513 | 0.128 | 0.115 | 0.051 |
| TPSE687*004#0060 | E | 680 | 4 | 27.2 | 14 | 60 | 1.658 | 1.492 | 0.663 | 0.099 | 0.090 | 0.040 |
| TPSE687*004#0100 | E | 680 | 4 | 27.2 | 14 | 100 | 1.284 | 1.156 | 0.513 | 0.128 | 0.116 | 0.051 |
| TPSV108*004#0040 | V | 1000 | 4 | 40 | 16 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSV108*004#0050 | V | 1000 | 4 | 40 | 16 | 50 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 |
| TPSV158*004#0050 | V | 1500 | 4 | 60 | 30 | 50 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 |
| TPSV158*004#0075 | V | 1500 | 4 | 60 | 30 | 75 | 1.826 | 1.643 | 0.730 | 0.137 | 0.123 | 0.055 |
| TPSR225*006#7000 | R | 2.2 | 6.3 | 0.5 | 6 | 7000 | 0.088 | 0.079 | 0.035 | 0.620 | 0.558 | 0.248 |
| TPSS475*006#4000 | S | 4.7 | 6.3 | 0.5 | 6 | 4000 | 0.127 | 0.115 | 0.051 | 0.508 | 0.457 | 0.203 |
| TPSA685*006#1800 | A | 6.8 | 6.3 | 0.5 | 6 | 1800 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 |
| TPSR106*006#3000 | R | 10 | 6.3 | 0.6 | 8 | 3000 | 0.135 | 0.122 | 0.049 | 0.405 | 0.364 | 0.162 |
| TPSR106*006#1500 | R | 10 | 6.3 | 0.6 | 8 | 1500 | 0.191 | 0.172 | 0.076 | 0.287 | 0.258 | 0.115 |
| TPSR106*006#1000 | R | 10 | 6.3 | 0.6 | 8 | 1000 | 0.235 | 0.211 | 0.094 | 0.335 | 0.211 | 0.094 |
| TPSA106*006#1500 | A | 10 | 6.3 | 0.6 | 6 | 1500 | 0.224 | 0.200 | 0.089 | 0.335 | 0.300 | 0.134 |
| TPSA156*006#0700 | A | 15 | 6.3 | 0.9 | 6 | 700 | 0.327 | 0.295 | 0.131 | 0.229 | 0.206 | 0.092 |
| TPSA156*006#1500 | A | 15 | 6.3 | 0.9 | 8 | 1500 | 0.224 | 0.200 | 0.089 | 0.235 | 0.300 | 0.134 |
| TPSA226*006#0500 | A | 22 | 6.3 | 1.4 | 6 | 500 | 0.387 | 0.349 | 0.155 | 0.194 | 0.174 | 0.077 |
| TPSA226*006#0900 | A | 22 | 6.3 | 1.4 | 6 | 900 | 0.289 | 0.260 | 0.115 | 0.260 | 0.234 | 0.104 |
| TPSB226*006#0375 | B | 22 | 6.3 | 1.4 | 6 | 375 | 0.476 | 0.428 | 0.190 | 0.179 | 0.161 | 0.071 |
| TPSB226*006#0600 | B | 22 | 6.3 | 1.4 | 6 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.202 | 0.090 |
| TPSS226*006#0900 | S | 22 | 6.3 | 1.4 | 8 | 900 | 0.269 | 0.242 | 0.107 | 0.242 | 0.218 | 0.097 |
| TPSA336*006#0600 | A | 33 | 6.3 | 2.1 | 8 | 600 | 0.353 | 0.318 | 0.141 | 0.212 | 0.190 | 0.084 |
| TPSB336*006#0250 | B | 33 | 6.3 | 2.1 | 6 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSB336*006#0350 | B | 33 | 6.3 | 2.1 | 6 | 350 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 |
| TPSB336*006#0450 | B | 33 | 6.3 | 2.1 | 6 | 450 | 0.435 | 0.391 | 0.174 | 0.196 | 0.176 | 0.078 |
| TPSB336*006#0600 | B | 33 | 6.3 | 2.1 | 6 | 600 | 0.376 | 0.337 | 0.151 | 0.226 | 0.202 | 0.090 |
| TBST336*006#0800 | T | 33 | 6.3 | 2.1 | 10 | 800 | 0.316 | 0.285 | 0.126 | 0.253 | 0.228 | 0.101 |
| TPSB476*006#0500 | B | 47 | 6.3 | 3 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB476*006#0350 | B | 47 | 6.3 | 3 | 6 | 350 | 0.493 | 0.444 | 0.197 | 0.173 | 0.156 | 0.069 |
| TPSB476*006#0250 | B | 47 | 6.3 | 3 | 6 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSC476*006#0300 | C | 47 | 6.3 | 3 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPSB686*006#0250 | B | 68 | 6.3 | 4.3 | 8 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSB686*006#0350 | B | 68 | 6.3 | 4.3 | 8 | 350 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 |
| TPSB686*006#0500 | B | 68 | 6.3 | 4.3 | 8 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSW686*006#0250 | W | 68 | 6.3 | 4.3 | 6 | 250 | 0.600 | 0.540 | 0.240 | 0.150 | 0.135 | 0.060 |
| TPSW686*006#0125 | W | 68 | 6.3 | 4.3 | 6 | 125 | 0.849 | 0.764 | 0.339 | 0.106 | 0.095 | 0.042 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

**# Standard Plating** – Insert R for 7" reel and S for 13" reel
**# Gold Plating** – Insert A for 7" reel and B for 13" reel

### RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSW686*006#0110 | W | 68 | 6.3 | 4.3 | 6 | 110 | 0.905 | 0.814 | 0.362 | 0.099 | 0.090 | 0.040 |
| TPSC686*006#0200 | C | 68 | 6.3 | 4.3 | 6 | 200 | 0.742 | 0.667 | 0.297 | 0.148 | 0.133 | 0.059 |
| TPSC686*006#0150 | C | 68 | 6.3 | 4.3 | 6 | 150 | 0.856 | 0.766 | 0.343 | 0.128 | 0.115 | 0.051 |
| TPSB107*006#0250 | B | 100 | 6.3 | 6.3 | 10 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSB107*006#0400 | B | 100 | 6.3 | 6.3 | 10 | 400 | 0.461 | 0.415 | 0.184 | 0.184 | 0.166 | 0.074 |
| TPSC107*006#0150 | C | 100 | 6.3 | 6.3 | 6 | 150 | 0.856 | 0.766 | 0.343 | 0.128 | 0.115 | 0.051 |
| TPSC107*006#0075 | C | 100 | 6.3 | 6.3 | 6 | 75 | 1.211 | 1.090 | 0.484 | 0.091 | 0.082 | 0.036 |
| TPSY107*006#0100 | Y | 100 | 6.3 | 6.3 | 6 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSW107*006#0100 | W | 100 | 6.3 | 6.3 | 6 | 100 | 0.949 | 0.854 | 0.379 | 0.095 | 0.085 | 0.038 |
| TPSC157*006#0050 | C | 150 | 6.3 | 9.5 | 6 | 50 | 1.483 | 1.335 | 0.593 | 0.074 | 0.067 | 0.030 |
| TPSC157*006#0090 | C | 150 | 6.3 | 9.5 | 6 | 90 | 1.106 | 0.995 | 0.442 | 0.099 | 0.090 | 0.040 |
| TPSC157*006#0250 | C | 150 | 6.3 | 9.5 | 6 | 250 | 0.663 | 0.597 | 0.265 | 0.166 | 0.149 | 0.066 |
| TPSC157*006#0200 | C | 150 | 6.3 | 9.5 | 6 | 200 | 0.742 | 0.667 | 0.297 | 0.148 | 0.133 | 0.059 |
| TPSC157*006#0150 | C | 150 | 6.3 | 9.5 | 6 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSD157*006#0125 | D | 150 | 6.3 | 9.5 | 6 | 125 | 1.095 | 0.980 | 0.438 | 0.137 | 0.122 | 0.055 |
| TPSD157*006#0050 | D | 150 | 6.3 | 9.5 | 6 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSY157*006#0040 | Y | 150 | 6.3 | 9.5 | 6 | 40 | 1.768 | 1.591 | 0.707 | 0.071 | 0.064 | 0.028 |
| TPSC227*006#0070 | C | 220 | 6.3 | 13.9 | 8 | 70 | 1.254 | 1.128 | 0.501 | 0.088 | 0.079 | 0.035 |
| TPSC227*006#0250 | C | 220 | 6.3 | 13.9 | 8 | 250 | 0.663 | 0.597 | 0.265 | 0.166 | 0.149 | 0.066 |
| TPSC227*006#0125 | C | 220 | 6.3 | 13.9 | 8 | 125 | 0.938 | 0.844 | 0.375 | 0.117 | 0.106 | 0.047 |
| TPSC227*006#0100 | C | 220 | 6.3 | 13.9 | 8 | 100 | 1.049 | 0.944 | 0.419 | 0.105 | 0.094 | 0.042 |
| TPSD227*006#0125 | D | 220 | 6.3 | 13.9 | 8 | 125 | 1.095 | 0.986 | 0.438 | 0.137 | 0.123 | 0.055 |
| TPSD227*006#0050 | D | 220 | 6.3 | 13.9 | 8 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSD227*006#0100 | D | 220 | 6.3 | 13.2 | 8 | 100 | 1.125 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSE227*006#0100 | E | 220 | 6.3 | 13.2 | 8 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSY227*006#0100 | Y | 220 | 6.3 | 13.9 | 10 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSY227*006#0150 | Y | 220 | 6.3 | 13.9 | 10 | 150 | 0.913 | 0.822 | 0.365 | 0.137 | 0.123 | 0.055 |
| TPSD337*006#0100 | D | 330 | 6.3 | 20.8 | 8 | 100 | 1.125 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD337*006#0050 | D | 330 | 6.3 | 20.8 | 8 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSD337*006#0070 | D | 330 | 6.3 | 20.8 | 8 | 70 | 1.464 | 1.317 | 0.586 | 0.102 | 0.092 | 0.041 |
| TPSD337*006#0045 | D | 330 | 6.3 | 20.8 | 8 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSE337*006#0150 | E | 330 | 6.3 | 20.8 | 8 | 150 | 1.049 | 0.938 | 0.420 | 0.157 | 0.141 | 0.063 |
| TPSE337*006#0125 | E | 330 | 6.3 | 20.8 | 8 | 125 | 1.149 | 1.028 | 0.460 | 0.144 | 0.128 | 0.057 |
| TPSE337*006#0100 | E | 330 | 6.3 | 20.8 | 8 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE337*006#0050 | E | 330 | 6.3 | 20.8 | 8 | 50 | 1.817 | 1.635 | 0.727 | 0.091 | 0.082 | 0.036 |
| TPSV337*006#0100 | V | 330 | 6.3 | 20.8 | 8 | 100 | 1.581 | 1.423 | 0.632 | 0.158 | 0.142 | 0.063 |
| TPSY337*006#0150 | Y | 330 | 6.3 | 20.8 | 12 | 150 | 0.913 | 0.822 | 0.365 | 0.137 | 0.123 | 0.055 |
| TPSD477*006#0045 | D | 470 | 6.3 | 29.6 | 12 | 45 | 1.826 | 1.643 | 0.730 | 0.082 | 0.074 | 0.033 |
| TPSD477*006#0060 | D | 470 | 6.3 | 29.6 | 12 | 60 | 1.581 | 1.423 | 0.632 | 0.095 | 0.085 | 0.038 |
| TPSD477*006#0200 | D | 470 | 6.3 | 29.6 | 12 | 200 | 0.866 | 0.779 | 0.346 | 0.173 | 0.156 | 0.069 |
| TPSD477*006#0100 | D | 470 | 6.3 | 29.6 | 12 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSE477*006#0200 | E | 470 | 6.3 | 29.6 | 10 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSE477*006#0100 | E | 470 | 6.3 | 29.6 | 10 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSE477*006#0060 | E | 470 | 6.3 | 29.6 | 10 | 60 | 1.658 | 1.492 | 0.663 | 0.099 | 0.090 | 0.040 |
| TPSE477*006#0050 | E | 470 | 6.3 | 29.6 | 10 | 50 | 1.817 | 1.635 | 0.727 | 0.091 | 0.082 | 0.036 |
| TPSE477*006#0045 | E | 470 | 6.3 | 29.6 | 10 | 45 | 1.915 | 1.723 | 0.766 | 0.086 | 0.078 | 0.034 |
| TPSV477*006#0100 | V | 470 | 6.3 | 29.6 | 10 | 100 | 1.581 | 1.414 | 0.632 | 0.158 | 0.141 | 0.063 |
| TPSV477*006#0055 | V | 470 | 6.3 | 29.6 | 10 | 55 | 2.132 | 1.907 | 0.853 | 0.117 | 0.105 | 0.047 |
| TPSV477*006#0040 | V | 470 | 6.3 | 29.6 | 10 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSE687*006#0100 | E | 680 | 6.3 | 42.8 | 10 | 100 | 1.284 | 1.156 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE687*006#0060 | E | 680 | 6.3 | 42.8 | 10 | 60 | 1.658 | 1.492 | 0.663 | 0.099 | 0.089 | 0.040 |
| TPSE687*006#0045 | E | 680 | 6.3 | 42.8 | 10 | 45 | 1.915 | 1.723 | 0.766 | 0.086 | 0.078 | 0.034 |
| TPSV687*006#0050 | V | 680 | 6.3 | 42.8 | 10 | 50 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 |
| TPSV687*006#0040 | V | 680 | 6.3 | 42.8 | 10 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSV687*006#0035 | V | 680 | 6.3 | 42.8 | 14 | 35 | 2.673 | 2.405 | 1.069 | 0.094 | 0.084 | 0.037 |
| TPSV108*006#0040 | V | 1000 | 6.3 | 60 | 16 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSV108*006#0050 | V | 1000 | 6.3 | 60 | 16 | 50 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 |
| TPSR105*010#9000 | R | 1 | 10 | 0.5 | 4 | 9000 | 0.078 | 0.070 | 0.031 | 0.702 | 0.632 | 0.281 |
| TPSA225*010#1800 | A | 2.2 | 10 | 0.5 | 6 | 1800 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 |
| TPST335*010#1500 | T | 3.3 | 10 | 0.5 | 6 | 1500 | 0.231 | 0.208 | 0.092 | 0.346 | 0.312 | 0.139 |
| TPSR475*010#5000 | R | 4.7 | 10 | 0.5 | 6 | 5000 | 0.105 | 0.094 | 0.042 | 0.525 | 0.472 | 0.210 |
| TPSR475*010#3000 | R | 4.7 | 10 | 0.5 | 6 | 3000 | 0.135 | 0.122 | 0.054 | 0.406 | 0.366 | 0.162 |
| TPSA475*010#1400 | A | 4.7 | 10 | 0.5 | 6 | 1400 | 0.231 | 0.208 | 0.093 | 0.324 | 0.292 | 0.130 |
| TPSA685*010#1800 | A | 6.8 | 10 | 0.7 | 6 | 1800 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 |
| TPST685*010#1800 | T | 6.8 | 10 | 0.7 | 6 | 1800 | 0.211 | 0.189 | 0.084 | 0.380 | 0.342 | 0.152 |
| TPSA106*010#1800 | A | 10 | 10 | 1 | 6 | 1800 | 0.204 | 0.183 | 0.082 | 0.367 | 0.329 | 0.147 |
| TPSA106*010#0900 | A | 10 | 10 | 1 | 6 | 900 | 0.289 | 0.260 | 0.115 | 0.260 | 0.234 | 0.104 |
| TPSP106*010#2000 | P | 10 | 10 | 1 | 8 | 2000 | 0.173 | 0.156 | 0.069 | 0.346 | 0.312 | 0.139 |
| TPST106*010#2000 | T | 10 | 10 | 1 | 6 | 2000 | 0.200 | 0.180 | 0.080 | 0.400 | 0.360 | 0.160 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

# **Standard Plating** – Insert R for 7" reel and S for 13" reel
# **Gold Plating** – Insert A for 7" reel and B for 13" reel

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPST106*010#1000 | T | 10 | 10 | 1 | 6 | 1000 | 0.283 | 0.254 | 0.113 | 0.283 | 0.254 | 0.113 |
| TPSA156*010#1000 | A | 15 | 10 | 1.5 | 6 | 1000 | 0.274 | 0.246 | 0.110 | 0.274 | 0.246 | 0.110 |
| TPSB156*010#0450 | B | 15 | 10 | 1.5 | 6 | 450 | 0.435 | 0.391 | 0.174 | 0.196 | 0.176 | 0.078 |
| TPSB156*010#0600 | B | 15 | 10 | 1.5 | 6 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 |
| TPSB226*010#0700 | B | 22 | 10 | 2.2 | 6 | 700 | 0.348 | 0.312 | 0.139 | 0.244 | 0.218 | 0.098 |
| TPSB226*010#0500 | B | 22 | 10 | 2.2 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.205 | 0.185 | 0.082 |
| TPSB226*010#0400 | B | 22 | 10 | 2.2 | 6 | 400 | 0.461 | 0.415 | 0.184 | 0.184 | 0.166 | 0.074 |
| TBSC226*010#0300 | C | 22 | 10 | 2.2 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPST226*010#0800 | T | 22 | 10 | 2.2 | 8 | 800 | 0.316 | 0.284 | 0.126 | 0.253 | 0.227 | 0.101 |
| TPSB336*010#0650 | B | 33 | 10 | 3.3 | 6 | 650 | 0.362 | 0.325 | 0.145 | 0.235 | 0.212 | 0.094 |
| TPSB336*010#0500 | B | 33 | 10 | 3.3 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB336*010#0425 | B | 33 | 10 | 3.3 | 6 | 425 | 0.447 | 0.402 | 0.179 | 0.190 | 0.171 | 0.076 |
| TPSB336*010#0250 | B | 33 | 10 | 3.3 | 6 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSC336*010#0500 | C | 33 | 10 | 3.3 | 6 | 500 | 0.469 | 0.420 | 0.188 | 0.235 | 0.210 | 0.094 |
| TPSC336*010#0375 | C | 33 | 10 | 3.3 | 6 | 375 | 0.542 | 0.484 | 0.217 | 0.203 | 0.182 | 0.081 |
| TPSC336*010#0150 | C | 33 | 10 | 3.3 | 6 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSW336*010#0350 | W | 33 | 10 | 3.3 | 6 | 350 | 0.507 | 0.456 | 0.203 | 0.177 | 0.160 | 0.071 |
| TPSB476*010#0250 | B | 47 | 10 | 4.7 | 8 | 250 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 |
| TPSB476*010#0650 | B | 47 | 10 | 4.7 | 8 | 650 | 0.362 | 0.325 | 0.145 | 0.235 | 0.212 | 0.094 |
| TPSB476*010#0500 | B | 47 | 10 | 4.7 | 8 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB476*010#0350 | B | 47 | 10 | 4.7 | 8 | 350 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 |
| TPSC476*010#0350 | C | 47 | 10 | 4.7 | 6 | 350 | 0.561 | 0.501 | 0.224 | 0.196 | 0.175 | 0.078 |
| TPSD476*010#0100 | D | 47 | 10 | 4.7 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSW476*010#0250 | W | 47 | 10 | 4.7 | 6 | 250 | 0.600 | 0.540 | 0.240 | 0.150 | 0.135 | 0.060 |
| TPSW476*010#0150 | W | 47 | 10 | 4.7 | 6 | 150 | 0.775 | 0.697 | 0.310 | 0.116 | 0.105 | 0.046 |
| TPSW476*010#0125 | W | 47 | 10 | 4.7 | 6 | 125 | 0.849 | 0.764 | 0.339 | 0.106 | 0.095 | 0.042 |
| TPSY686*010#0200 | Y | 68 | 10 | 6.8 | 6 | 200 | 0.791 | 0.712 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSY686*010#0100 | Y | 68 | 10 | 6.8 | 6 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSD686*010#0150 | D | 68 | 10 | 6.8 | 6 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD686*010#0100 | D | 68 | 10 | 6.8 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSC686*010#0300 | C | 68 | 10 | 6.8 | 6 | 300 | 0.605 | 0.544 | 0.242 | 0.181 | 0.163 | 0.073 |
| TPSC686*010#0200 | C | 68 | 10 | 6.8 | 6 | 200 | 0.741 | 0.667 | 0.296 | 0.148 | 0.133 | 0.059 |
| TPSC686*010#0080 | C | 68 | 10 | 6.8 | 6 | 80 | 1.173 | 1.055 | 0.469 | 0.094 | 0.084 | 0.038 |
| TPSC686*010#0100 | C | 68 | 10 | 6.8 | 6 | 100 | 1.049 | 0.944 | 0.420 | 0.105 | 0.094 | 0.042 |
| TPSW686*010#0100 | W | 68 | 10 | 6.8 | 6 | 100 | 0.949 | 0.854 | 0.379 | 0.095 | 0.085 | 0.038 |
| TPSW686*010#0150 | W | 68 | 10 | 6.8 | 6 | 150 | 0.775 | 0.697 | 0.310 | 0.116 | 0.105 | 0.046 |
| TPSY107*010#0200 | Y | 100 | 10 | 10 | 6 | 200 | 0.791 | 0.712 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSY107*010#0150 | Y | 100 | 10 | 10 | 6 | 150 | 0.913 | 0.822 | 0.365 | 0.137 | 0.123 | 0.055 |
| TPSY107*010#0100 | Y | 100 | 10 | 10 | 6 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSC107*010#0200 | C | 100 | 10 | 10 | 8 | 200 | 0.742 | 0.667 | 0.297 | 0.148 | 0.133 | 0.059 |
| TPSC107*010#0150 | C | 100 | 10 | 10 | 8 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSC107*010#0100 | C | 100 | 10 | 10 | 8 | 100 | 1.049 | 0.944 | 0.420 | 0.105 | 0.094 | 0.042 |
| TPSC107*010#0075 | C | 100 | 10 | 10 | 8 | 75 | 1.211 | 1.090 | 0.484 | 0.091 | 0.082 | 0.036 |
| TPSD107*010#0150 | D | 100 | 10 | 10 | 6 | 150 | 1.000 | 0.894 | 0.400 | 0.150 | 0.134 | 0.060 |
| TPSD107*010#0125 | D | 100 | 10 | 10 | 6 | 125 | 1.095 | 0.980 | 0.438 | 0.137 | 0.122 | 0.055 |
| TPSD107*010#0100 | D | 100 | 10 | 10 | 6 | 100 | 1.225 | 1.095 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD107*010#0080 | D | 100 | 10 | 10 | 6 | 80 | 1.369 | 1.225 | 0.548 | 0.110 | 0.098 | 0.044 |
| TPSD107*010#0065 | D | 100 | 10 | 10 | 6 | 65 | 1.519 | 1.367 | 0.607 | 0.098 | 0.089 | 0.039 |
| TPSD107*010#0050 | D | 100 | 10 | 10 | 6 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSE107*010#0125 | E | 100 | 10 | 10 | 6 | 125 | 1.149 | 1.028 | 0.460 | 0.144 | 0.128 | 0.057 |
| TPSX107*010#0200 | X | 100 | 10 | 10 | 8 | 200 | 0.707 | 0.636 | 0.283 | 0.141 | 0.127 | 0.056 |
| TPSX107*010#0150 | X | 100 | 10 | 10 | 8 | 150 | 0.816 | 0.735 | 0.327 | 0.122 | 0.110 | 0.049 |
| TPSX107*010#0085 | X | 100 | 10 | 10 | 8 | 85 | 1.085 | 0.976 | 0.434 | 0.092 | 0.083 | 0.037 |
| TPSW107*010#0150 | W | 100 | 10 | 10 | 6 | 150 | 0.775 | 0.697 | 0.310 | 0.116 | 0.105 | 0.046 |
| TPSY157*010#0200 | Y | 150 | 10 | 15 | 6 | 200 | 0.791 | 0.712 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSY157*010#0150 | Y | 150 | 10 | 15 | 6 | 150 | 0.913 | 0.822 | 0.365 | 0.137 | 0.123 | 0.055 |
| TPSY157*010#0100 | Y | 150 | 10 | 15 | 6 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSD157*010#0100 | D | 150 | 10 | 15 | 8 | 100 | 1.225 | 1.095 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD157*010#0085 | D | 150 | 10 | 15 | 8 | 85 | 1.328 | 1.195 | 0.531 | 0.113 | 0.102 | 0.045 |
| TPSD157*010#0050 | D | 150 | 10 | 15 | 8 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSE157*010#0100 | E | 150 | 10 | 15 | 8 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSX157*010#0100 | X | 150 | 10 | 15 | 6 | 100 | 1.000 | 0.900 | 0.400 | 0.100 | 0.090 | 0.040 |
| TPSY227*010#0200 | Y | 220 | 10 | 22 | 10 | 200 | 0.790 | 0.711 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSY227*010#0150 | Y | 220 | 10 | 22 | 10 | 150 | 0.913 | 0.822 | 0.365 | 0.137 | 0.123 | 0.055 |
| TPSD227*010#0150 | D | 220 | 10 | 22 | 8 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD227*010#0100 | D | 220 | 10 | 22 | 8 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD227*010#0050 | D | 220 | 10 | 22 | 8 | 50 | 1.732 | 1.559 | 0.692 | 0.087 | 0.078 | 0.035 |
| TPSE227*010#0150 | E | 220 | 10 | 22 | 8 | 150 | 1.049 | 0.938 | 0.420 | 0.157 | 0.141 | 0.063 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

# **Standard Plating** – Insert R for 7" reel and S for 13" reel
# **Gold Plating** – Insert A for 7" reel and B for 13" reel

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSE227*010#0125 | E | 220 | 10 | 22 | 8 | 125 | 1.149 | 1.028 | 0.460 | 0.144 | 0.128 | 0.057 |
| TPSE227*010#0100 | E | 220 | 10 | 22 | 8 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE227*010#0070 | E | 220 | 10 | 22 | 8 | 70 | 1.535 | 1.382 | 0.614 | 0.107 | 0.097 | 0.043 |
| TPSE227*010#0060 | E | 220 | 10 | 22 | 8 | 60 | 1.658 | 1.483 | 0.663 | 0.099 | 0.089 | 0.040 |
| TPSE227*010#0050 | E | 220 | 10 | 22 | 8 | 50 | 1.817 | 1.635 | 0.727 | 0.091 | 0.082 | 0.036 |
| TPSD337*010#0150 | D | 330 | 10 | 33 | 10 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD337*010#0100 | D | 330 | 10 | 33 | 10 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD337*010#0050 | D | 330 | 10 | 33 | 8 | 50 | 1.732 | 1.559 | 0.693 | 0.087 | 0.078 | 0.035 |
| TPSD337*010#0065 | D | 330 | 10 | 33 | 8 | 65 | 1.519 | 1.367 | 0.608 | 0.099 | 0.089 | 0.039 |
| TPSE337*010#0100 | E | 330 | 10 | 33 | 10 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE337*010#0060 | E | 330 | 10 | 33 | 10 | 60 | 1.658 | 1.483 | 0.663 | 0.099 | 0.089 | 0.040 |
| TPSE337*010#0050 | E | 330 | 10 | 33 | 10 | 50 | 1.817 | 1.635 | 0.727 | 0.091 | 0.082 | 0.036 |
| TPSE337*010#0040 | E | 330 | 10 | 33 | 8 | 40 | 2.031 | 1.828 | 0.812 | 0.081 | 0.073 | 0.032 |
| TPSV337*010#0100 | V | 330 | 10 | 33 | 10 | 100 | 1.581 | 1.414 | 0.632 | 0.158 | 0.141 | 0.063 |
| TPSV337*010#0060 | V | 330 | 10 | 33 | 10 | 60 | 2.041 | 1.826 | 0.816 | 0.122 | 0.110 | 0.049 |
| TPSV337*010#0040 | V | 330 | 10 | 33 | 10 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSV477*010#0040 | V | 470 | 10 | 47 | 10 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSE477*010#0200 | E | 470 | 10 | 47 | 10 | 200 | 0.908 | 0.812 | 0.363 | 0.181 | 0.162 | 0.072 |
| TPSE477*010#0100 | E | 470 | 10 | 47 | 10 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE477*010#0060 | E | 470 | 10 | 47 | 10 | 60 | 1.658 | 1.492 | 0.663 | 0.099 | 0.090 | 0.040 |
| TPSE477*010#0050 | E | 470 | 10 | 47 | 10 | 50 | 1.817 | 1.625 | 0.727 | 0.091 | 0.081 | 0.036 |
| TPSE477*010#0045 | E | 470 | 10 | 47 | 10 | 45 | 1.915 | 1.723 | 0.766 | 0.086 | 0.078 | 0.034 |
| TPSV477*010#0100 | V | 470 | 10 | 47 | 10 | 100 | 1.581 | 1.423 | 0.632 | 0.158 | 0.142 | 0.063 |
| TPSV477*010#0060 | V | 470 | 10 | 47 | 10 | 60 | 2.041 | 1.825 | 0.816 | 0.122 | 0.110 | 0.049 |
| TPSV477*010#0040 | V | 470 | 10 | 47 | 10 | 40 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 |
| TPSA225*016#3500 | A | 2.2 | 16 | 0.5 | 6 | 3500 | 0.146 | 0.131 | 0.059 | 0.512 | 0.458 | 0.205 |
| TPSA225*016#1800 | A | 2.2 | 16 | 0.5 | 6 | 1800 | 0.204 | 0.184 | 0.081 | 0.367 | 0.330 | 0.146 |
| TPST225*016#2000 | T | 2.2 | 16 | 0.5 | 6 | 2000 | 0.200 | 0.180 | 0.080 | 0.400 | 0.360 | 0.160 |
| TPSA335*016#3500 | A | 3.3 | 16 | 0.5 | 6 | 3500 | 0.146 | 0.131 | 0.059 | 0.512 | 0.458 | 0.205 |
| TPSA475*016#2000 | A | 4.7 | 16 | 0.8 | 6 | 2000 | 0.194 | 0.174 | 0.077 | 0.387 | 0.349 | 0.155 |
| TPSB475*016#1500 | B | 4.7 | 16 | 0.8 | 6 | 1500 | 0.238 | 0.214 | 0.095 | 0.357 | 0.321 | 0.143 |
| TPSB475*016#0800 | B | 4.7 | 16 | 0.8 | 6 | 800 | 0.326 | 0.293 | 0.130 | 0.261 | 0.235 | 0.104 |
| TPSA685*016#1500 | A | 6.8 | 16 | 1.1 | 6 | 1500 | 0.224 | 0.201 | 0.089 | 0.335 | 0.302 | 0.134 |
| TPSB685*016#0600 | B | 6.8 | 16 | 1.1 | 6 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 |
| TPSB685*016#1200 | B | 6.8 | 16 | 1.1 | 6 | 1200 | 0.266 | 0.240 | 0.106 | 0.319 | 0.287 | 0.128 |
| TPSB106*016#0500 | B | 10 | 16 | 1.6 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB106*016#0800 | B | 10 | 16 | 1.6 | 6 | 800 | 0.326 | 0.293 | 0.130 | 0.261 | 0.235 | 0.104 |
| TPSC106*016#0500 | C | 10 | 16 | 1.6 | 6 | 500 | 0.469 | 0.422 | 0.188 | 0.235 | 0.212 | 0.094 |
| TPSW106*016#0500 | W | 10 | 16 | 1.6 | 6 | 500 | 0.424 | 0.382 | 0.170 | 0.212 | 0.191 | 0.085 |
| TPSW106*016#0600 | W | 10 | 16 | 1.6 | 6 | 600 | 0.387 | 0.349 | 0.155 | 0.232 | 0.209 | 0.093 |
| TPST106*016#1000 | T | 10 | 16 | 1.6 | 8 | 1000 | 0.283 | 0.255 | 0.113 | 0.283 | 0.255 | 0.113 |
| TPST106*016#0800 | T | 10 | 16 | 1.6 | 8 | 800 | 0.316 | 0.284 | 0.126 | 0.253 | 0.228 | 0.101 |
| TPSB156*016#0500 | B | 15 | 16 | 2.4 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB156*016#0800 | B | 15 | 16 | 2.4 | 6 | 800 | 0.326 | 0.292 | 0.130 | 0.261 | 0.233 | 0.104 |
| TPSB226*016#0400 | B | 22 | 16 | 3.5 | 6 | 400 | 0.461 | 0.415 | 0.184 | 0.184 | 0.166 | 0.074 |
| TPSB226*016#0600 | B | 22 | 16 | 3.5 | 6 | 600 | 0.376 | 0.338 | 0.150 | 0.225 | 0.203 | 0.090 |
| TPSC226*016#0375 | C | 22 | 16 | 3.5 | 6 | 375 | 0.542 | 0.484 | 0.217 | 0.203 | 0.182 | 0.081 |
| TPSC226*016#0300 | C | 22 | 16 | 3.5 | 6 | 300 | 0.605 | 0.545 | 0.242 | 0.181 | 0.163 | 0.073 |
| TPSC226*016#0250 | C | 22 | 16 | 3.5 | 6 | 250 | 0.663 | 0.597 | 0.265 | 0.166 | 0.149 | 0.066 |
| TPSC226*016#0150 | C | 22 | 16 | 3.5 | 6 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSW226*016#0500 | W | 22 | 16 | 3.5 | 6 | 500 | 0.424 | 0.382 | 0.170 | 0.212 | 0.191 | 0.085 |
| TPSB336*016#0350 | B | 33 | 16 | 5.3 | 8 | 350 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 |
| TPSB336*016#0500 | B | 33 | 16 | 5.3 | 8 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSC336*016#0100 | C | 33 | 16 | 5.3 | 6 | 100 | 1.049 | 0.944 | 0.420 | 0.105 | 0.094 | 0.042 |
| TPSC336*016#0150 | C | 33 | 16 | 5.3 | 6 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSC336*016#0300 | C | 33 | 16 | 5.3 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPSC336*016#0225 | C | 33 | 16 | 5.3 | 6 | 225 | 0.699 | 0.629 | 0.279 | 0.157 | 0.141 | 0.063 |
| TPSW336*016#0500 | W | 33 | 16 | 5.3 | 6 | 500 | 0.424 | 0.381 | 0.169 | 0.212 | 0.191 | 0.085 |
| TPSW336*016#0400 | W | 33 | 16 | 5.3 | 6 | 400 | 0.474 | 0.427 | 0.189 | 0.189 | 0.170 | 0.076 |
| TPSW336*016#0250 | W | 33 | 16 | 5.3 | 6 | 250 | 0.600 | 0.540 | 0.240 | 0.150 | 0.135 | 0.060 |
| TPSW336*016#0175 | W | 33 | 16 | 5.3 | 6 | 175 | 0.717 | 0.645 | 0.287 | 0.125 | 0.113 | 0.050 |
| TPSW336*016#0140 | W | 33 | 16 | 5.3 | 6 | 140 | 0.802 | 0.722 | 0.321 | 0.112 | 0.101 | 0.045 |
| TPSY336*016#0400 | Y | 33 | 16 | 5.3 | 6 | 400 | 0.559 | 0.503 | 0.224 | 0.224 | 0.202 | 0.090 |
| TPSY336*016#0300 | Y | 33 | 16 | 5.3 | 6 | 300 | 0.645 | 0.580 | 0.258 | 0.194 | 0.174 | 0.078 |
| TPSC476*016#0110 | C | 47 | 16 | 7.5 | 6 | 110 | 1.000 | 0.900 | 0.400 | 0.110 | 0.099 | 0.044 |
| TPSC476*016#0350 | C | 47 | 16 | 7.5 | 6 | 350 | 0.561 | 0.501 | 0.224 | 0.196 | 0.175 | 0.078 |
| TPSY476*016#0250 | Y | 47 | 16 | 7.5 | 6 | 250 | 0.707 | 0.636 | 0.283 | 0.176 | 0.159 | 0.071 |
| TPSD476*016#0200 | D | 47 | 16 | 7.5 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

# **Standard Plating** – Insert R for 7" reel and S for 13" reel
# **Gold Plating** – Insert A for 7" reel and B for 13" reel

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSD476*016#0150 | D | 47 | 16 | 7.5 | 6 | 150 | 1.000 | 0.894 | 0.400 | 0.150 | 0.134 | 0.060 |
| TPSD476*016#0100 | D | 47 | 16 | 7.5 | 6 | 100 | 1.225 | 1.103 | 0.490 | 0.123 | 0.110 | 0.049 |
| TPSD476*016#0080 | D | 47 | 16 | 7.5 | 6 | 80 | 1.369 | 1.232 | 0.548 | 0.110 | 0.099 | 0.044 |
| TPSX476*016#0180 | X | 47 | 16 | 7.5 | 6 | 180 | 0.745 | 0.671 | 0.298 | 0.134 | 0.121 | 0.054 |
| TPSY686*016#0250 | Y | 68 | 16 | 10.9 | 6 | 250 | 0.707 | 0.636 | 0.283 | 0.177 | 0.159 | 0.071 |
| TPSY686*016#0200 | Y | 68 | 16 | 10.9 | 6 | 200 | 0.791 | 0.712 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSC686*016#0125 | C | 68 | 16 | 10.9 | 6 | 125 | 0.938 | 0.844 | 0.375 | 0.117 | 0.106 | 0.047 |
| TPSC686*016#0200 | C | 68 | 16 | 10.9 | 6 | 200 | 0.741 | 0.667 | 0.297 | 0.148 | 0.133 | 0.059 |
| TPSD686*016#0150 | D | 68 | 16 | 10.9 | 6 | 150 | 1.000 | 0.894 | 0.400 | 0.150 | 0.134 | 0.060 |
| TPSD686*016#0100 | D | 68 | 16 | 10.9 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD686*016#0070 | D | 68 | 16 | 10.8 | 6 | 70 | 1.464 | 1.317 | 0.586 | 0.102 | 0.092 | 0.041 |
| TPSX686*016#0150 | X | 68 | 16 | 10.9 | 8 | 150 | 0.816 | 0.735 | 0.327 | 0.122 | 0.110 | 0.049 |
| TPSY107*016#0200 | Y | 100 | 16 | 16 | 8 | 200 | 0.791 | 0.712 | 0.316 | 0.158 | 0.142 | 0.063 |
| TPSY107*016#0150 | Y | 100 | 16 | 16 | 8 | 150 | 0.912 | 0.812 | 0.365 | 0.135 | 0.121 | 0.055 |
| TPSY107*016#0100 | Y | 100 | 16 | 24 | 6 | 100 | 1.118 | 1.006 | 0.447 | 0.112 | 0.101 | 0.045 |
| TPSD107*016#0150 | D | 100 | 16 | 16 | 6 | 150 | 1.000 | 0.894 | 0.400 | 0.150 | 0.134 | 0.060 |
| TPSD107*016#0125 | D | 100 | 16 | 16 | 6 | 125 | 1.095 | 0.980 | 0.438 | 0.137 | 0.122 | 0.055 |
| TPSD107*016#0100 | D | 100 | 16 | 16 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD107*016#0060 | D | 100 | 16 | 16 | 6 | 60 | 1.581 | 1.423 | 0.632 | 0.095 | 0.085 | 0.038 |
| TPSE107*016#0150 | E | 100 | 16 | 16 | 6 | 150 | 1.049 | 0.938 | 0.420 | 0.157 | 0.141 | 0.063 |
| TPSE107*016#0125 | E | 100 | 16 | 16 | 6 | 125 | 1.149 | 1.028 | 0.460 | 0.144 | 0.128 | 0.057 |
| TPSE107*016#0100 | E | 100 | 16 | 16 | 6 | 100 | 1.285 | 1.149 | 0.514 | 0.128 | 0.115 | 0.051 |
| TPSE107*016#0055 | E | 100 | 16 | 16 | 6 | 55 | 1.732 | 1.559 | 0.693 | 0.095 | 0.086 | 0.038 |
| TPSD157*016#0150 | D | 150 | 16 | 24 | 6 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD157*016#0125 | D | 150 | 16 | 24 | 6 | 125 | 1.095 | 0.986 | 0.438 | 0.137 | 0.123 | 0.055 |
| TPSD157*016#0100 | D | 150 | 16 | 24 | 6 | 100 | 1.225 | 1.103 | 0.490 | 0.123 | 0.110 | 0.049 |
| TPSD157*016#0060 | D | 150 | 16 | 24 | 6 | 60 | 1.581 | 1.423 | 0.632 | 0.095 | 0.085 | 0.038 |
| TPSD157*016#0085 | D | 150 | 16 | 24 | 6 | 85 | 1.328 | 1.196 | 0.531 | 0.113 | 0.102 | 0.045 |
| TPSE157*016#0100 | E | 150 | 16 | 24 | 6 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSV157*016#0075 | V | 150 | 16 | 24 | 8 | 75 | 1.826 | 1.643 | 0.730 | 0.137 | 0.123 | 0.055 |
| TPSV157*016#0045 | V | 150 | 16 | 24 | 8 | 45 | 2.357 | 2.121 | 0.943 | 0.106 | 0.095 | 0.042 |
| TPSE227*016#0150 | E | 220 | 16 | 35.2 | 10 | 150 | 1.049 | 0.944 | 0.420 | 0.157 | 0.142 | 0.063 |
| TPSE227*016#0100 | E | 220 | 16 | 35.2 | 10 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSV227*016#0150 | V | 220 | 16 | 35.2 | 8 | 150 | 1.291 | 1.162 | 0.516 | 0.194 | 0.175 | 0.078 |
| TPSV227*016#0100 | V | 220 | 16 | 35.2 | 8 | 100 | 1.581 | 1.414 | 0.632 | 0.158 | 0.141 | 0.063 |
| TPSV227*016#0075 | V | 220 | 16 | 35.2 | 8 | 75 | 1.825 | 1.643 | 0.730 | 0.137 | 0.123 | 0.054 |
| TPSV227*016#0050 | V | 220 | 16 | 35.2 | 8 | 50 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 |
| TPSA105*020#3000 | A | 1 | 20 | 0.5 | 4 | 3000 | 0.158 | 0.142 | 0.063 | 0.474 | 0.427 | 0.190 |
| TPSS105*020#6000 | S | 1 | 20 | 0.5 | 4 | 6000 | 0.104 | 0.093 | 0.042 | 0.624 | 0.561 | 0.249 |
| TPSR105*020#6000 | R | 1 | 20 | 0.5 | 4 | 6000 | 0.096 | 0.086 | 0.038 | 0.574 | 0.517 | 0.230 |
| TPST105*020#2000 | T | 1 | 20 | 0.5 | 4 | 2000 | 0.115 | 0.104 | 0.046 | 0.693 | 0.624 | 0.277 |
| TPSA225*020#3000 | A | 2.2 | 20 | 0.5 | 6 | 3000 | 0.158 | 0.142 | 0.063 | 0.474 | 0.427 | 0.190 |
| TPSA335*020#2500 | A | 3.3 | 20 | 0.7 | 6 | 2500 | 0.173 | 0.156 | 0.069 | 0.433 | 0.390 | 0.173 |
| TPSB335*020#1300 | B | 3.3 | 20 | 0.7 | 6 | 1300 | 0.256 | 0.230 | 0.102 | 0.333 | 0.299 | 0.133 |
| TPSA475*020#1800 | A | 4.7 | 20 | 0.9 | 6 | 1800 | 0.204 | 0.183 | 0.082 | 0.367 | 0.329 | 0.147 |
| TPSB475*020#0750 | B | 4.7 | 20 | 0.9 | 6 | 750 | 0.337 | 0.303 | 0.135 | 0.252 | 0.227 | 0.101 |
| TPSB475*020#1000 | B | 4.7 | 20 | 0.9 | 6 | 1000 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 |
| TPSB685*020#0600 | B | 6.8 | 20 | 1.4 | 6 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 |
| TPSB685*020#1000 | B | 6.8 | 20 | 1.4 | 6 | 1000 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 |
| TPSC685*020#0700 | C | 6.8 | 20 | 1.4 | 6 | 700 | 0.396 | 0.357 | 0.159 | 0.277 | 0.250 | 0.111 |
| TPSB106*020#0500 | B | 10 | 20 | 2 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSB106*020#1000 | B | 10 | 20 | 2 | 6 | 1000 | 0.292 | 0.261 | 0.117 | 0.292 | 0.261 | 0.117 |
| TPSC106*020#0700 | C | 10 | 20 | 2 | 6 | 700 | 0.396 | 0.357 | 0.159 | 0.277 | 0.250 | 0.111 |
| TPSC106*020#0500 | C | 10 | 20 | 2 | 6 | 500 | 0.469 | 0.422 | 0.188 | 0.235 | 0.211 | 0.094 |
| TPSB156*020#0500 | B | 15 | 20 | 3 | 6 | 500 | 0.412 | 0.371 | 0.165 | 0.206 | 0.186 | 0.082 |
| TPSC156*020#0450 | C | 15 | 20 | 3 | 6 | 450 | 0.494 | 0.442 | 0.198 | 0.222 | 0.199 | 0.089 |
| TPSC156*020#0400 | C | 15 | 20 | 3 | 6 | 400 | 0.524 | 0.472 | 0.210 | 0.210 | 0.189 | 0.084 |
| TPSB226*020#0400 | B | 22 | 20 | 4.4 | 6 | 400 | 0.461 | 0.415 | 0.184 | 0.184 | 0.166 | 0.074 |
| TPSB226*020#0600 | B | 22 | 20 | 4.4 | 6 | 600 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 |
| TPSC226*020#0100 | C | 22 | 20 | 4.4 | 6 | 100 | 1.049 | 0.944 | 0.420 | 0.105 | 0.094 | 0.042 |
| TPSC226*020#0400 | C | 22 | 20 | 4.4 | 6 | 400 | 0.524 | 0.472 | 0.210 | 0.210 | 0.189 | 0.084 |
| TPSC226*020#0150 | C | 22 | 20 | 4.4 | 6 | 150 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 |
| TPSD226*020#0300 | D | 22 | 20 | 4.4 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD226*020#0200 | D | 22 | 20 | 4.4 | 6 | 200 | 0.866 | 0.779 | 0.346 | 0.173 | 0.156 | 0.069 |
| TPSD336*020#0200 | D | 33 | 20 | 6.6 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |
| TPSD336*020#0100 | D | 33 | 20 | 6.6 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSC336*020#0300 | C | 33 | 20 | 6.6 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPSD476*020#0200 | D | 47 | 20 | 9.4 | 6 | 200 | 0.866 | 0.779 | 0.346 | 0.173 | 0.156 | 0.069 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

# **Standard Plating** – Insert R for 7" reel and S for 13" reel
# **Gold Plating** – Insert A for 7" reel and B for 13" reel

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSD476*020#0100 | D | 47 | 20 | 9.4 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD476*020#0075 | D | 47 | 20 | 9.4 | 6 | 75 | 1.414 | 1.273 | 0.566 | 0.106 | 0.095 | 0.042 |
| TPSE476*020#0250 | E | 47 | 20 | 9.4 | 6 | 250 | 0.812 | 0.731 | 0.325 | 0.203 | 0.183 | 0.081 |
| TPSE476*020#0200 | E | 47 | 20 | 9.4 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSE476*020#0150 | E | 47 | 20 | 9.4 | 6 | 150 | 1.049 | 0.938 | 0.420 | 0.157 | 0.141 | 0.063 |
| TPSE476*020#0125 | E | 47 | 20 | 9.4 | 6 | 125 | 1.149 | 1.034 | 0.460 | 0.144 | 0.129 | 0.057 |
| TPSE476*020#0070 | E | 47 | 20 | 9.4 | 6 | 70 | 1.535 | 1.382 | 0.614 | 0.107 | 0.097 | 0.043 |
| TPSD686*020#0200 | D | 68 | 20 | 13.6 | 6 | 200 | 0.866 | 0.779 | 0.346 | 0.173 | 0.156 | 0.069 |
| TPSD686*020#0150 | D | 68 | 20 | 13.6 | 6 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSV686*020#0070 | D | 68 | 20 | 13.6 | 6 | 70 | 1.464 | 1.317 | 0.586 | 0.102 | 0.092 | 0.041 |
| TPSE686*020#0200 | E | 68 | 20 | 13.6 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSE686*020#0150 | E | 68 | 20 | 13.6 | 6 | 150 | 1.049 | 0.938 | 0.420 | 0.157 | 0.141 | 0.063 |
| TPSE686*020#0125 | E | 68 | 20 | 13.6 | 6 | 125 | 1.149 | 1.028 | 0.460 | 0.144 | 0.128 | 0.057 |
| TPSE107*020#0200 | E | 100 | 20 | 20 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSE107*020#0150 | E | 100 | 20 | 20 | 6 | 150 | 1.049 | 0.944 | 0.420 | 0.157 | 0.142 | 0.063 |
| TPSE107*020#0100 | E | 100 | 20 | 20 | 6 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSV107*020#0200 | V | 100 | 20 | 20 | 8 | 200 | 1.118 | 1.006 | 0.447 | 0.224 | 0.202 | 0.090 |
| TPSV107*020#0100 | V | 100 | 20 | 20 | 8 | 100 | 1.581 | 1.414 | 0.632 | 0.158 | 0.141 | 0.063 |
| TPSV107*020#0085 | V | 100 | 20 | 20 | 8 | 85 | 1.715 | 1.543 | 0.686 | 0.145 | 0.131 | 0.058 |
| TPSV107*020#0060 | V | 100 | 20 | 20 | 8 | 60 | 2.041 | 1.837 | 0.816 | 0.122 | 0.110 | 0.049 |
| TPSV157*020#0080 | V | 150 | 20 | 30 | 8 | 80 | 1.768 | 1.591 | 0.707 | 0.141 | 0.127 | 0.057 |
| TPSA474*025#7000 | A | 0.47 | 25 | 0.5 | 4 | 7000 | 0.103 | 0.093 | 0.041 | 0.721 | 0.649 | 0.288 |
| TPSA684*025#6000 | A | 0.68 | 25 | 0.5 | 4 | 6000 | 0.112 | 0.101 | 0.045 | 0.671 | 0.604 | 0.268 |
| TPSA155*025#3000 | A | 1.5 | 25 | 0.5 | 6 | 3000 | 0.158 | 0.141 | 0.063 | 0.474 | 0.424 | 0.190 |
| TPSB155*025#1800 | B | 1.5 | 25 | 0.5 | 6 | 1800 | 0.217 | 0.196 | 0.087 | 0.391 | 0.351 | 0.156 |
| TPSB225*025#2500 | B | 2.2 | 25 | 0.6 | 6 | 2500 | 0.184 | 0.166 | 0.074 | 0.461 | 0.415 | 0.184 |
| TPSB225*025#1200 | B | 2.2 | 25 | 0.6 | 6 | 1200 | 0.266 | 0.240 | 0.106 | 0.319 | 0.287 | 0.128 |
| TPSB225*025#0900 | B | 2.2 | 25 | 0.6 | 6 | 900 | 0.307 | 0.277 | 0.123 | 0.277 | 0.249 | 0.111 |
| TPSA335*025#1500 | A | 3.3 | 25 | 0.8 | 6 | 1500 | 0.224 | 0.201 | 0.089 | 0.335 | 0.302 | 0.134 |
| TPSB335*025#0750 | B | 3.3 | 25 | 0.8 | 6 | 750 | 0.337 | 0.303 | 0.135 | 0.252 | 0.227 | 0.101 |
| TPSB335*025#1500 | B | 3.3 | 25 | 0.8 | 6 | 1500 | 0.238 | 0.214 | 0.095 | 0.357 | 0.321 | 0.143 |
| TPSB335*025#2000 | B | 3.3 | 25 | 0.8 | 6 | 2000 | 0.206 | 0.186 | 0.082 | 0.412 | 0.371 | 0.165 |
| TPSB475*025#1500 | B | 4.7 | 25 | 1.2 | 6 | 1500 | 0.238 | 0.213 | 0.095 | 0.357 | 0.319 | 0.143 |
| TPSB475*025#0900 | B | 4.7 | 25 | 1.2 | 6 | 900 | 0.307 | 0.277 | 0.123 | 0.277 | 0.249 | 0.111 |
| TPSB475*025#0700 | B | 4.7 | 25 | 1.2 | 6 | 700 | 0.348 | 0.314 | 0.139 | 0.244 | 0.220 | 0.098 |
| TPSB685*025#0700 | B | 6.8 | 25 | 1.7 | 6 | 700 | 0.348 | 0.314 | 0.139 | 0.244 | 0.220 | 0.098 |
| TPSC685*025#0700 | C | 6.8 | 25 | 1.7 | 6 | 700 | 0.396 | 0.357 | 0.159 | 0.277 | 0.250 | 0.111 |
| TPSC685*025#0600 | C | 6.8 | 25 | 1.7 | 6 | 600 | 0.428 | 0.385 | 0.171 | 0.257 | 0.231 | 0.103 |
| TPSC685*025#0500 | C | 6.8 | 25 | 1.7 | 6 | 500 | 0.469 | 0.422 | 0.188 | 0.235 | 0.211 | 0.094 |
| TPSC106*025#0500 | C | 10 | 25 | 2.5 | 6 | 500 | 0.469 | 0.420 | 0.188 | 0.235 | 0.210 | 0.094 |
| TPSC106*025#0300 | C | 10 | 25 | 2.5 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPSC156*025#0220 | C | 15 | 25 | 3.8 | 6 | 220 | 0.707 | 0.636 | 0.283 | 0.156 | 0.140 | 0.062 |
| TPSC156*025#0300 | C | 15 | 25 | 3.8 | 6 | 300 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 |
| TPSD156*025#0300 | D | 15 | 25 | 3.8 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD156*025#0100 | D | 15 | 25 | 3.8 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSC226*025#0275 | C | 22 | 25 | 5.5 | 6 | 275 | 0.632 | 0.569 | 0.253 | 0.174 | 0.157 | 0.070 |
| TPSD226*025#0300 | D | 22 | 25 | 5.5 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD226*025#0200 | D | 22 | 25 | 5.5 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |
| TPSD226*025#0100 | D | 22 | 25 | 5.5 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSC226*025#0400 | C | 22 | 25 | 5.5 | 6 | 400 | 0.524 | 0.472 | 0.210 | 0.210 | 0.189 | 0.084 |
| TPSD336*025#0300 | D | 33 | 25 | 8.3 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD336*025#0200 | D | 33 | 25 | 8.3 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |
| TPSD336*025#0100 | D | 33 | 25 | 8.3 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSE336*025#0300 | E | 33 | 25 | 8.3 | 6 | 300 | 0.742 | 0.663 | 0.297 | 0.222 | 0.199 | 0.089 |
| TPSE336*025#0200 | E | 33 | 25 | 8.3 | 6 | 200 | 0.908 | 0.812 | 0.363 | 0.182 | 0.162 | 0.073 |
| TPSE336*025#0175 | E | 33 | 25 | 8.3 | 6 | 175 | 0.971 | 0.868 | 0.388 | 0.170 | 0.152 | 0.068 |
| TPSE336*025#0100 | E | 33 | 25 | 8.3 | 6 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSD476*025#0250 | D | 47 | 25 | 11.8 | 6 | 250 | 0.775 | 0.697 | 0.310 | 0.194 | 0.174 | 0.077 |
| TPSD476*025#0150 | D | 47 | 25 | 11.8 | 6 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD476*025#0125 | D | 47 | 25 | 11.8 | 6 | 125 | 1.095 | 0.986 | 0.438 | 0.137 | 0.123 | 0.055 |
| TPSE476*025#0080 | E | 47 | 25 | 8.3 | 6 | 80 | 1.436 | 1.293 | 0.574 | 0.115 | 0.103 | 0.046 |
| TPSE476*025#0125 | E | 47 | 25 | 8.3 | 6 | 125 | 1.149 | 1.034 | 0.460 | 0.144 | 0.129 | 0.057 |
| TPSE476*025#0100 | E | 47 | 25 | 8.3 | 6 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSE686*025#0200 | E | 68 | 25 | 17 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.181 | 0.163 | 0.073 |
| TPSE686*025#0125 | E | 68 | 25 | 17 | 6 | 125 | 1.149 | 1.034 | 0.459 | 0.143 | 0.129 | 0.057 |
| TPSV686*025#0200 | V | 68 | 25 | 17 | 6 | 200 | 1.118 | 1.006 | 0.447 | 0.223 | 0.201 | 0.089 |
| TPSV686*025#0150 | V | 68 | 25 | 17 | 6 | 150 | 1.291 | 1.162 | 0.516 | 0.194 | 0.174 | 0.077 |
| TPSV686*025#0095 | V | 68 | 25 | 17 | 6 | 95 | 1.622 | 1.460 | 0.649 | 0.154 | 0.139 | 0.062 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

**# Standard Plating** – Insert R for 7" reel and S for 13" reel
**# Gold Plating** – Insert A for 7" reel and B for 13" reel

## RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (mΩ) @100kHz | 100kHz Ripple Current Ratings (A) | | | 100kHz Ripple Voltage Ratings (V) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 25ºC | 85ºC | 125ºC | 25ºC | 85ºC | 125ºC |
| TPSV686*025#0080 | V | 68 | 25 | 17 | 6 | 80 | 1.768 | 1.591 | 0.707 | 0.141 | 0.127 | 0.057 |
| TPSV107*025#0100 | V | 100 | 25 | 25 | 8 | 100 | 1.581 | 1.423 | 0.632 | 0.158 | 0.142 | 0.063 |
| TPSA224*035#6000 | A | 0.22 | 35 | 0.5 | 4 | 6000 | 0.112 | 0.101 | 0.045 | 0.672 | 0.605 | 0.269 |
| TPSA334*035#6000 | A | 0.33 | 35 | 0.5 | 4 | 6000 | 0.112 | 0.101 | 0.045 | 0.672 | 0.605 | 0.269 |
| TPSB474*035#4000 | B | 0.47 | 35 | 0.5 | 4 | 4000 | 0.146 | 0.131 | 0.058 | 0.584 | 0.526 | 0.234 |
| TPSA474*035#6000 | A | 0.47 | 35 | 0.5 | 4 | 6000 | 0.112 | 0.101 | 0.045 | 0.671 | 0.604 | 0.268 |
| TPSA684*035#6000 | A | 0.68 | 35 | 0.5 | 4 | 6000 | 0.112 | 0.101 | 0.045 | 0.672 | 0.605 | 0.269 |
| TPSA105*035#3000 | A | 1 | 35 | 0.5 | 4 | 3000 | 0.158 | 0.142 | 0.063 | 0.474 | 0.427 | 0.190 |
| TPSB105*035#2000 | B | 1 | 35 | 0.5 | 4 | 2000 | 0.206 | 0.186 | 0.082 | 0.412 | 0.371 | 0.165 |
| TPSB155*035#2500 | B | 1.5 | 35 | 0.5 | 6 | 2500 | 0.184 | 0.166 | 0.074 | 0.461 | 0.415 | 0.184 |
| TPSA225*035#1500 | A | 2.2 | 35 | 0.8 | 6 | 1500 | 0.224 | 0.201 | 0.089 | 0.335 | 0.302 | 0.134 |
| TPSB225*035#0750 | B | 2.2 | 35 | 0.8 | 6 | 750 | 0.337 | 0.303 | 0.135 | 0.252 | 0.227 | 0.101 |
| TPSB225*035#1500 | B | 2.2 | 35 | 0.8 | 6 | 1500 | 0.238 | 0.214 | 0.095 | 0.357 | 0.321 | 0.143 |
| TPSB225*035#2000 | B | 2.2 | 35 | 0.8 | 6 | 2000 | 0.206 | 0.186 | 0.082 | 0.412 | 0.371 | 0.165 |
| TPSC225*035#1000 | C | 2.2 | 35 | 0.8 | 6 | 1000 | 0.332 | 0.298 | 0.133 | 0.332 | 0.298 | 0.133 |
| TPSB335*035#1000 | B | 3.3 | 35 | 1.2 | 6 | 1000 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 |
| TPSC335*035#0700 | C | 3.3 | 35 | 1.2 | 6 | 700 | 0.396 | 0.357 | 0.159 | 0.277 | 0.250 | 0.111 |
| TPSB475*035#0700 | B | 4.7 | 35 | 1.2 | 6 | 700 | 0.348 | 0.314 | 0.139 | 0.244 | 0.220 | 0.98 |
| TPSB475*035#1500 | B | 4.7 | 35 | 1.2 | 6 | 1500 | 0.238 | 0.214 | 0.095 | 0.357 | 0.321 | 0.143 |
| TPSC475*035#0600 | C | 4.7 | 35 | 1.6 | 6 | 600 | 0.428 | 0.383 | 0.171 | 0.257 | 0.230 | 0.103 |
| TPSC685*035#0350 | C | 6.8 | 35 | 2.4 | 6 | 350 | 0.561 | 0.505 | 0.224 | 0.196 | 0.177 | 0.078 |
| TPSD685*035#0150 | D | 6.8 | 35 | 2.4 | 6 | 150 | 1.000 | 0.900 | 0.400 | 0.150 | 0.135 | 0.060 |
| TPSD685*035#0500 | D | 6.8 | 35 | 2.4 | 6 | 500 | 0.548 | 0.493 | 0.219 | 0.274 | 0.246 | 0.110 |
| TPSD685*035#0400 | D | 6.8 | 35 | 2.4 | 6 | 400 | 0.612 | 0.551 | 0.245 | 0.245 | 0.220 | 0.098 |
| TPSD106*035#0300 | D | 10 | 35 | 3.5 | 6 | 300 | 0.707 | 0.632 | 0.283 | 0.212 | 0.190 | 0.085 |
| TPSD106*035#0125 | D | 10 | 35 | 3.5 | 6 | 125 | 1.095 | 0.986 | 0.438 | 0.137 | 0.123 | 0.055 |
| TPSE106*035#0200 | E | 10 | 35 | 3.5 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSC156*035#0350 | C | 15 | 35 | 5.3 | 6 | 350 | 0.561 | 0.505 | 0.224 | 0.196 | 0.177 | 0.078 |
| TPSC156*035#0450 | C | 15 | 35 | 5.3 | 6 | 450 | 0.494 | 0.445 | 0.198 | 0.222 | 0.200 | 0.089 |
| TPSD156*035#0300 | D | 15 | 35 | 5.3 | 6 | 300 | 0.707 | 0.632 | 0.283 | 0.212 | 0.190 | 0.085 |
| TPSD156*035#0100 | D | 15 | 35 | 5.3 | 6 | 100 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 |
| TPSD226*035#0400 | D | 22 | 35 | 7.7 | 6 | 400 | 0.612 | 0.548 | 0.245 | 0.245 | 0.219 | 0.098 |
| TPSD226*035#0300 | D | 22 | 35 | 7.7 | 6 | 300 | 0.707 | 0.632 | 0.283 | 0.212 | 0.190 | 0.085 |
| TPSD226*035#0200 | D | 22 | 35 | 7.7 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |
| TPSD226*035#0125 | D | 22 | 35 | 7.7 | 6 | 125 | 1.095 | 0.986 | 0.438 | 0.137 | 0.123 | 0.055 |
| TPSE226*035#0300 | E | 22 | 35 | 7.7 | 6 | 300 | 0.742 | 0.663 | 0.297 | 0.222 | 0.199 | 0.089 |
| TPSE226*035#0200 | E | 22 | 35 | 7.7 | 6 | 200 | 0.908 | 0.812 | 0.363 | 0.182 | 0.162 | 0.073 |
| TPSE226*035#0125 | E | 22 | 35 | 7.7 | 6 | 125 | 1.149 | 1.034 | 0.460 | 0.144 | 0.129 | 0.057 |
| TPSD336*035#0300 | D | 33 | 35 | 11.6 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD336*035#0200 | D | 33 | 35 | 11.6 | 6 | 200 | 0.866 | 0.775 | 0.346 | 0.173 | 0.155 | 0.069 |
| TPSE336*035#0300 | E | 33 | 35 | 11.6 | 6 | 300 | 0.742 | 0.667 | 0.297 | 0.222 | 0.200 | 0.089 |
| TPSE336*035#0250 | E | 33 | 35 | 11.6 | 6 | 250 | 0.812 | 0.731 | 0.325 | 0.203 | 0.183 | 0.081 |
| TPSE336*035#0100 | E | 33 | 35 | 11.6 | 6 | 100 | 1.285 | 1.156 | 0.514 | 0.128 | 0.116 | 0.051 |
| TPSE476*035#0250 | E | 47 | 35 | 16.5 | 6 | 250 | 0.812 | 0.731 | 0.325 | 0.203 | 0.183 | 0.081 |
| TPSE476*035#0200 | E | 47 | 35 | 16.5 | 6 | 200 | 0.908 | 0.817 | 0.363 | 0.182 | 0.163 | 0.073 |
| TPSA154*050#9000 | A | 0.15 | 50 | 0.5 | 4 | 9000 | 0.091 | 0.082 | 0.036 | 0.819 | 0.737 | 0.328 |
| TPSA224*050#7000 | A | 0.22 | 50 | 0.5 | 4 | 7000 | 0.103 | 0.093 | 0.041 | 0.721 | 0.649 | 0.288 |
| TPSC105*050#2500 | C | 1 | 50 | 0.5 | 4 | 2500 | 0.210 | 0.189 | 0.084 | 0.524 | 0.472 | 0.210 |
| TPSC155*050#2000 | C | 1.5 | 50 | 0.8 | 6 | 2000 | 0.234 | 0.211 | 0.094 | 0.468 | 0.421 | 0.187 |
| TPSC155*050#1500 | C | 1.5 | 50 | 0.8 | 6 | 1500 | 0.271 | 0.243 | 0.108 | 0.406 | 0.366 | 0.163 |
| TPSD225*050#1200 | D | 2.2 | 50 | 1.1 | 6 | 1200 | 0.354 | 0.318 | 0.141 | 0.424 | 0.382 | 0.170 |
| TPSD335*050#0800 | D | 3.3 | 50 | 1.7 | 6 | 800 | 0.433 | 0.390 | 0.173 | 0.346 | 0.311 | 0.138 |
| TPSD475*050#0700 | D | 4.7 | 50 | 2.4 | 6 | 700 | 0.463 | 0.417 | 0.185 | 0.324 | 0.292 | 0.130 |
| TPSD475*050#0500 | D | 4.7 | 50 | 2.4 | 6 | 500 | 0.548 | 0.493 | 0.219 | 0.274 | 0.246 | 0.110 |
| TPSD475*050#0300 | D | 4.7 | 50 | 2.4 | 6 | 300 | 0.707 | 0.636 | 0.283 | 0.212 | 0.191 | 0.085 |
| TPSD685*050#0600 | D | 6.8 | 50 | 3.4 | 6 | 600 | 0.500 | 0.450 | 0.200 | 0.300 | 0.270 | 0.120 |
| TPSD685*050#0500 | D | 6.8 | 50 | 3.4 | 6 | 500 | 0.548 | 0.493 | 0.219 | 0.274 | 0.246 | 0.110 |
| TPSE106*050#0400 | E | 10 | 50 | 5 | 6 | 400 | 0.642 | 0.578 | 0.257 | 0.257 | 0.231 | 0.103 |
| TPSE106*050#0500 | E | 10 | 50 | 5 | 6 | 500 | 0.574 | 0.516 | 0.230 | 0.287 | 0.258 | 0.115 |
| TPSE156*050#0250 | E | 15 | 50 | 5 | 6 | 250 | 0.812 | 0.731 | 0.325 | 0.203 | 0.183 | 0.081 |

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.
* Insert K for ±10% and M for ±20% Capacitance Tolerance

**# Standard Plating** – Insert R for 7" reel and S for 13" reel
**# Gold Plating** – Insert A for 7" reel and B for 13" reel