

**Advanced Capacitors for Demanding Applications**



**The Industry's Most Power-Dense Capacitor Technology**

EVANSCAPS' trusted and proven hybrid technology is perfectly suited for defense & aerospace applications requiring high power in a rugged compact hi-rel hermetic package.



## TDD Series



The TDD Series tantalum hybrid capacitors has the **highest power density** of any tantalum capacitor technology. Ultra-low ESR & compact construction enables very high current capability and aggressive duty cycles.

| Part Number | DLA PN   | Voltage (85°C) | Voltage (125°C) | Capacitance (µF) | ESR (mΩ) | Height (in) |
|-------------|----------|----------------|-----------------|------------------|----------|-------------|
| TDD1010603  | 15010-01 | 10             | 6               | 60,000           | 30       | 0.31        |
| TDD2010124  | 15010-02 | 10             | 6               | 120,000          | 20       | 0.45        |
| TDD3010184  | 15010-03 | 10             | 6               | 180,000          | 15       | 0.6         |
| TDD4010244  | 15010-04 | 10             | 6               | 240,000          | 12       | 0.75        |
| TDD1016403  | 15010-05 | 16             | 9.6             | 40,000           | 30       | 0.31        |
| TDD2016803  | 15010-06 | 16             | 9.6             | 80,000           | 20       | 0.45        |
| TDD3016124  | 15010-07 | 16             | 9.6             | 120,000          | 15       | 0.6         |
| TDD4016164  | 15010-08 | 16             | 9.6             | 160,000          | 12       | 0.75        |
| TDD1025243  | 15010-09 | 25             | 15              | 24,000           | 30       | 0.31        |
| TDD2025483  | 15010-10 | 25             | 15              | 48,000           | 20       | 0.45        |
| TDD3025723  | 15010-11 | 25             | 15              | 72,000           | 15       | 0.6         |
| TDD4025963  | 15010-12 | 25             | 15              | 96,000           | 12       | 0.75        |
| TDD1035163  | 15010-13 | 35             | 21              | 16,000           | 40       | 0.31        |
| TDD2035323  | 15010-14 | 35             | 21              | 32,000           | 20       | 0.45        |
| TDD3035483  | 15010-15 | 35             | 21              | 48,000           | 15       | 0.6         |
| TDD4035643  | 15010-16 | 35             | 21              | 64,000           | 12       | 0.75        |
| TDD1050113  | 15010-17 | 50             | 30              | 11,000           | 50       | 0.31        |
| TDD2050223  | 15010-18 | 50             | 30              | 22,000           | 25       | 0.45        |
| TDD3050333  | 15010-19 | 50             | 30              | 33,000           | 17       | 0.6         |
| TDD4050443  | 15010-20 | 50             | 30              | 44,000           | 15       | 0.75        |
| TDD1063472  | 15010-21 | 63             | 38              | 4,700            | 50       | 0.31        |
| TDD2063942  | 15010-22 | 63             | 38              | 9,400            | 25       | 0.45        |
| TDD3063143  | 15010-23 | 63             | 38              | 14,000           | 17       | 0.6         |
| TDD4063183  | 15010-24 | 63             | 38              | 18,000           | 15       | 0.75        |
| TDD1080302  | 15010-25 | 80             | 48              | 3,000            | 55       | 0.31        |
| TDD2080602  | 15010-26 | 80             | 48              | 6,000            | 27       | 0.45        |
| TDD3080902  | 15010-27 | 80             | 48              | 9,000            | 18       | 0.6         |
| TDD4080123  | 15010-28 | 80             | 48              | 12,000           | 15       | 0.75        |
| TDD1100222  | 15010-29 | 100            | 60              | 2,200            | 65       | 0.31        |
| TDD2100442  | 15010-30 | 100            | 60              | 4,400            | 30       | 0.45        |
| TDD3100662  | 15010-31 | 100            | 60              | 6,600            | 20       | 0.6         |
| TDD4100882  | 15010-32 | 100            | 60              | 8,800            | 15       | 0.75        |
| TDD1110202  |          | 110            | 66              | 2,000            | 85       | 0.31        |
| TDD2110402  |          | 110            | 66              | 4,000            | 40       | 0.45        |
| TDD3110602  |          | 110            | 66              | 6,000            | 27       | 0.6         |
| TDD4110802  |          | 110            | 66              | 8,000            | 20       | 0.75        |
| TDD1125152  | 15010-33 | 125            | 75              | 1,500            | 100      | 0.31        |
| TDD2125302  | 15010-34 | 125            | 75              | 3,000            | 50       | 0.45        |
| TDD3125452  | 15010-35 | 125            | 75              | 4,500            | 35       | 0.6         |
| TDD4125602  | 15010-36 | 125            | 75              | 6,000            | 25       | 0.75        |

## Capacitor Bank Assemblies



COTS capacitor banks are available in 3 or 6 pack assemblies. They can be used with any THQ or TDD capacitors. They are available in capacitance ranges from 1100µF to 0.9F and voltage ranges from 10V to 300V. Custom configurations are available.

| Series    | Voltage Range (@85°C) | Voltage Range (@ 125°C) | Capacitance Range 120Hz (µF) | ESR Range (mΩ) |
|-----------|-----------------------|-------------------------|------------------------------|----------------|
| 3S Series | 150V-300V             | 90V-180V                | 1100-4000                    | 100-180        |
| 3P Series | 10V-100V              | 6V-60V                  | 9900-450000                  | 10-35          |
| 6P Series | 10V-125V              | 6V-75V                  | 20000-900000                 | 50-60          |

## THQ Series



The THQ Series tantalum hybrid capacitors come in a 1.4" diameter round tantalum case and provide high reliability with 15 years of proven field service.

| Part Number | DLA PN   | Voltage (85°C) | Voltage (125°C) | Capacitance (µF) | ESR (mΩ) | Height (in) |
|-------------|----------|----------------|-----------------|------------------|----------|-------------|
| THQ1010503  | 04001-01 | 10             | 6               | 50,000           | 50       | 0.312       |
| THQ2010104  |          | 10             | 6               | 100,000          | 37       | 0.46        |
| THQ3010154  | 04003-01 | 10             | 6               | 150,000          | 25       | 0.608       |
| THQ4010204  | 09022-01 | 10             | 6               | 200,000          | 25       | 0.725       |
| THQ5010204  | 04004-01 | 10             | 6               | 200,000          | 12       | 0.76        |
| THQ1016303  | 04001-02 | 16             | 9.6             | 30,000           | 50       | 0.312       |
| THQ2016603  |          | 16             | 9.6             | 60,000           | 37       | 0.46        |
| THQ3016903  | 04003-02 | 16             | 9.6             | 90,000           | 25       | 0.608       |
| THQ4016124  | 09022-02 | 16             | 9.6             | 120,000          | 25       | 0.725       |
| THQ5016124  | 04004-02 | 16             | 9.6             | 120,000          | 15       | 0.76        |
| THQ1025183  | 04001-03 | 25             | 15              | 18,000           | 50       | 0.312       |
| THQ2025363  |          | 25             | 15              | 36,000           | 50       | 0.46        |
| THQ3025543  | 04003-03 | 25             | 15              | 54,000           | 35       | 0.608       |
| THQ4025703  | 09022-03 | 25             | 15              | 70,000           | 25       | 0.725       |
| THQ5025703  | 04004-03 | 25             | 15              | 70,000           | 15       | 0.76        |
| THQ1035123  | 04001-04 | 35             | 21              | 12,000           | 50       | 0.312       |
| THQ2035243  |          | 35             | 21              | 24,000           | 50       | 0.46        |
| THQ3035363  | 04003-04 | 35             | 21              | 36,000           | 35       | 0.608       |
| THQ4035503  | 09022-04 | 35             | 21              | 50,000           | 25       | 0.725       |
| THQ5035503  | 04004-04 | 35             | 21              | 50,000           | 15       | 0.76        |
| THQ1050802  | 04001-05 | 50             | 30              | 8,000            | 60       | 0.312       |
| THQ2050163  |          | 50             | 30              | 16,000           | 60       | 0.46        |
| THQ3050243  | 04003-05 | 50             | 30              | 24,000           | 35       | 0.608       |
| THQ4050323  | 09022-05 | 50             | 30              | 32,000           | 25       | 0.725       |
| THQ5050323  | 04004-05 | 50             | 30              | 32,000           | 15       | 0.76        |
| THQ1063402  | 04001-06 | 63             | 38              | 4,000            | 100      | 0.312       |
| THQ2063802  |          | 63             | 38              | 8,000            | 70       | 0.46        |
| THQ3063123  | 04003-06 | 63             | 38              | 12,000           | 35       | 0.608       |
| THQ4063163  | 09022-06 | 63             | 38              | 16,000           | 35       | 0.725       |
| THQ5063163  | 04004-06 | 63             | 38              | 16,000           | 20       | 0.76        |
| THQ1080282  | 04001-07 | 80             | 48              | 2,800            | 100      | 0.312       |
| THQ2080562  |          | 80             | 48              | 5,600            | 70       | 0.46        |
| THQ3080822  | 04003-07 | 80             | 48              | 8,200            | 40       | 0.608       |
| THQ4080113  | 09022-07 | 80             | 48              | 11,000           | 35       | 0.725       |
| THQ5080113  | 04004-07 | 80             | 48              | 11,000           | 25       | 0.76        |
| THQ1100192  | 04001-08 | 100            | 60              | 1,900            | 125      | 0.312       |
| THQ2100382  |          | 100            | 60              | 3,800            | 70       | 0.46        |
| THQ3100572  | 04003-08 | 100            | 60              | 5,700            | 50       | 0.608       |
| THQ4100752  | 09022-08 | 100            | 60              | 7,500            | 35       | 0.725       |
| THQ5100752  | 04004-08 | 100            | 60              | 7,500            | 32       | 0.76        |
| THQ1110152  | 04001-09 | 110            | 65              | 1,500            | 200      | 0.312       |
| THQ2110302  |          | 110            | 65              | 3,000            | 140      | 0.46        |
| THQ3110452  | 04003-09 | 110            | 65              | 4,500            | 75       | 0.608       |
| THQ4110602  |          | 110            | 65              | 6,000            | 35       | 0.725       |
| THQ5110602  |          | 110            | 65              | 6,000            | 32       | 0.76        |
| THQ1125112  | 04003-09 | 125            | 75              | 1,100            | 200      | 0.312       |
| THQ2125222  |          | 125            | 75              | 2,200            | 140      | 0.46        |
| THQ3125332  | 04003-10 | 125            | 75              | 3,300            | 75       | 0.608       |
| THQ4125452  | 09022-09 | 125            | 75              | 4,500            | 50       | 0.725       |
| THQ5125452  | 04004-09 | 125            | 75              | 4,500            | 40       | 0.76        |

## Mounting

Studs can be added to any TDD or THQ series capacitor. Studs are #2-56 VDA 752 and are available in several lengths from 0.150" – 0.400".

Visit [Evanscap.com](http://Evanscap.com) to learn more.

## HyCap Series



HyCap capacitors offer the same proven Hybrid capacitor technology in the traditional tantalum wet case style. They are available in standard DSCC 93026 and DSCC 10004 ratings.

| Part Number | DLA PN   | Voltage (85°C) | Voltage (125°C) | Capacitance (µF) | ESR (mΩ) | Length (in) | Diameter (in) |
|-------------|----------|----------------|-----------------|------------------|----------|-------------|---------------|
| HC8010102   |          | 10             | 7               | 1,000            | 800      | 0.641       | 0.281         |
| HC8025561   |          | 25             | 15              | 560              | 800      | 0.641       | 0.281         |
| HC2B025102  | 10004-19 | 25             | 15              | 1,000            | 800      | 0.641       | 0.281         |
| HC8050221   |          | 50             | 30              | 220              | 900      | 0.641       | 0.281         |
| HC2B050471  | 10004-20 | 50             | 30              | 470              | 900      | 0.641       | 0.281         |
| HC3B050681  | 10004-25 | 50             | 30              | 680              | 900      | 0.641       | 0.281         |
| HCD050681   | 93026-40 | 50             | 30              | 680              | 700      | 1.062       | 0.375         |
| HC2D050152  | 10004-08 | 50             | 30              | 1,500            | 450      | 1.062       | 0.375         |
| HC3D050222  | 10004-15 | 50             | 30              | 2,200            | 600      | 1.062       | 0.375         |
| HC4D050272  |          | 50             | 30              | 2,700            | 800      | 1.062       | 0.375         |
| HC4B050821  |          | 50             | 30              | 820              | 800      | 0.641       | 0.281         |
| HC8060151   | 93026-42 | 60             | 40              | 150              | 1100     | 0.641       | 0.281         |
| HC2B060331  | 10004-21 | 60             | 40              | 330              | 900      | 0.641       | 0.281         |
| HC3B060471  | 10004-26 | 60             | 40              | 470              | 1000     | 0.641       | 0.281         |
| HC3B060561  | 10004-27 | 60             | 40              | 560              | 1000     | 0.641       | 0.281         |
| HCD060561   | 93026-44 | 60             | 40              | 560              | 800      | 1.062       | 0.375         |
| HC2D060122  | 10004-16 | 60             | 40              | 1,200            | 500      | 1.062       | 0.375         |
| HC3D060182  | 10004-28 | 60             | 40              | 1,800            | 500      | 1.062       | 0.375         |
| HC4D060222  |          | 60             | 40              | 2,200            | 450      | 1.062       | 0.375         |
| HC4B060681  |          | 60             | 40              | 680              | 900      | 0.641       | 0.281         |
| HC2A075680  |          | 75             | 50              | 68               | 2800     | 0.453       | 0.188         |
| HC8075111   | 93026-46 | 75             | 50              | 110              | 1300     | 0.641       | 0.281         |
| HCD075471   | 93026-48 | 75             | 50              | 470              | 900      | 1.062       | 0.375         |
| HC2B075221  | 10004-22 | 75             | 50              | 220              | 1000     | 0.641       | 0.281         |
| HC3B075331  | 10004-29 | 75             | 50              | 330              | 600      | 0.641       | 0.281         |
| HC4B075391  |          | 75             | 50              | 390              | 600      | 0.641       | 0.281         |
| HC2D075941  | 10004-17 | 75             | 50              | 940              | 500      | 1.062       | 0.375         |
| HC2D075102  |          | 75             | 50              | 1,000            | 350      | 1.062       | 0.375         |
| HC3D075122  | 10004-30 | 75             | 50              | 1,200            | 400      | 1.062       | 0.375         |
| HC4D075152  |          | 75             | 50              | 1,500            | 600      | 1.062       | 0.375         |
| HC2A100330  |          | 100            | 65              | 33               | 3000     | 0.453       | 0.188         |
| HC3A100470  |          | 100            | 65              | 47               | 2500     | 0.453       | 0.188         |
| HC8100680   | 93026-50 | 100            | 65              | 68               | 2100     | 0.641       | 0.281         |
| HC2B100151  | 10004-23 | 100            | 65              | 150              | 1200     | 0.641       | 0.281         |
| HC3B100221  |          | 100            | 65              | 220              | 800      | 0.641       | 0.281         |
| HC4B100271  |          | 100            | 65              | 270              | 1000     | 0.641       | 0.281         |
| HCD100221   | 93026-52 | 100            | 65              | 220              | 1200     | 1.062       | 0.375         |
| HC2D100471  | 10004-18 | 100            | 65              | 470              | 500      | 1.062       | 0.375         |
| HC3D100681  |          | 100            | 65              | 680              | 600      | 1.062       | 0.375         |
| HC4D100881  |          | 100            | 65              | 880              | 600      | 1.062       | 0.375         |
| HC2A125220  |          | 125            | 85              | 22               | 3200     | 0.453       | 0.188         |
| HC8125470   |          | 125            | 85              | 47               | 2300     | 0.641       | 0.281         |
| HC2B125101  |          | 125            | 85              | 100              | 1800     | 0.641       | 0.281         |
| HC3B125151  |          | 125            | 85              | 150              | 1000     | 0.641       | 0.281         |
| HC4B125181  |          | 125            | 85              | 180              | 1500     | 0.641       | 0.281         |
| HCD125151   | 93026-56 | 125            | 85              | 150              | 1600     | 1.062       | 0.375         |
| HC2D125241  | 10004-14 | 125            | 85              | 240              | 800      | 1.062       | 0.375         |
| HC2D125331  | 10004-24 | 125            | 85              | 330              | 800      | 1.062       | 0.375         |
| HC3D125471  |          | 125            | 85              | 470              | 700      | 1.062       | 0.375         |
| HC4D125561  |          | 125            | 85              | 560              | 700      | 1.062       | 0.375         |
| HC2D150151  |          | 150            | 85              | 150              | 1800     | 1.062       | 0.375         |

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[www.Evanscap.com](http://www.Evanscap.com)

## HyCap High Temperature "HT" Series



High Temperature HyCap Series Hybrid capacitors are designed for operation up to 200°C. HC-HT capacitors provide a full rated life of 2,000 hours at 200°C and HC2-HT capacitors are rated for 1,000 hours at 200°C.

| Part Number  | Voltage (175°C) | Voltage (200°C) | Capacitance (µF) | ESR (mΩ) | Length (in) | Diameter (in) |
|--------------|-----------------|-----------------|------------------|----------|-------------|---------------|
| HC2A050101HT | 30              | 25              | 100              | 2600     | 0.453       | 0.188         |
| HC2B050471HT | 30              | 25              | 470              | 900      | 0.641       | 0.281         |
| HC2D050152HT | 30              | 25              | 1,500            | 500      | 1.062       | 0.375         |
| HCD050681HT  | 35              | 30              | 680              | 700      | 1.062       | 0.375         |
| HC2B060331HT | 36              | 30              | 330              | 900      | 0.641       | 0.281         |
| HC3B060561HT | 36              | 30              | 560              | 1300     | 0.641       | 0.281         |
| HC2D060122HT | 36              | 30              | 1,200            | 500      | 1.062       | 0.375         |
| HC3D060182HT | 36              | 30              | 1,800            | 600      | 1.062       | 0.375         |
| HCD060561HT  | 42              | 36              | 560              | 800      | 1.062       | 0.375         |
| HC2A075680HT | 45              | 37              | 68               | 2800     | 0.453       | 0.188         |
| HC2B075221HT | 45              | 37              | 220              | 1000     | 0.641       | 0.281         |
| HC2D075941HT | 45              | 37              | 940              | 600      | 1.062       | 0.375         |
| HC3D075122HT | 45              | 37              | 1,200            | 800      | 1.062       | 0.375         |
| HC3B075331HT | 45              | 37              | 330              | 1500     | 0.641       | 0.281         |
| HC4B075391HT | 45              | 37              | 390              | 800      | 0.641       | 0.281         |
| HC8075111HT  | 50              | 45              | 110              | 1300     | 0.641       | 0.281         |
| HCD075471HT  | 50              | 45              | 470              | 900      | 1.062       | 0.375         |
| HC4D075152HT | 60              | 50              | 1,500            | 600      | 1.062       | 0.375         |
| HC2A100330HT | 60              | 50              | 33               | 3000     | 0.453       | 0.188         |
| HC2B100151HT | 60              | 50              | 150              | 1200     | 0.641       | 0.281         |
| HC2D100471HT | 60              | 50              | 470              | 700      | 1.062       | 0.375         |
| HC3D100681HT | 60              | 50              | 680              | 500      | 1.062       | 0.375         |
| HC4D100881HT | 60              | 50              | 880              | 600      | 1.062       | 0.375         |
| HC3B100221HT | 60              | 50              | 220              | 1000     | 0.641       | 0.281         |
| HC4B100271HT | 60              | 50              | 270              | 1200     | 0.641       | 0.281         |
| HC8100680HT  | 70              | 60              | 68               | 2100     | 0.641       | 0.281         |
| HCD100221HT  | 70              | 60              | 220              | 1200     | 1.062       | 0.375         |
| HC2A125220HT | 75              | 62              | 22               | 3200     | 0.453       | 0.188         |
| HC2B125101HT | 75              | 62              | 100              | 1800     | 1.062       | 0.375         |
| HC3B125151HT | 75              | 62              | 150              | 1200     | 1.062       | 0.375         |
| HC4B125181HT | 75              | 62              | 180              | 1400     | 1.062       | 0.375         |
| HC2D125331HT | 75              | 62              | 330              | 800      | 1.062       | 0.375         |
| HC3D125471HT | 75              | 62              | 470              | 600      | 1.062       | 0.375         |
| HC4D125561HT | 75              | 62              | 560              | 700      | 1.062       | 0.375         |
| HCD125151HT  | 85              | 75              | 150              | 1600     | 1.062       | 0.375         |

## Capattery Series



Capattery super capacitors are designed for longer duration power hold up and memory backup applications. Specifications are per the DSCC 92001. Full operating temperature range of -55°C to 85°C. Unlimited cycle life and shelf life. Steady state charge life is > 25 years.

| Part Number | DLA PN   | Voltage (85°C) | Capacitance (µF) | ESR (mΩ) | Diameter (in) | Height (in) |
|-------------|----------|----------------|------------------|----------|---------------|-------------|
| RE055105    | 92001-02 | 5.5            | 1,000,000        | 700      | 1.28          | 0.675       |
| RS055105    | 92001-07 | 5.5            | 1,000,000        | 2000     | 1.1           | 0.58        |
| RE110474    | 92001-09 | 11             | 470,000          | 1500     | 1.28          | 1.05        |
| RS110564    | 92001-14 | 10             | 560,000          | 4000     | 1.1           | 0.95        |

## Capattery Shock Hardened Series

The Capattery shock hardened models are ideal for weapons systems. They can withstand shocks measured up to 100,000G and spin rates >3,000. Able to power electronics for penetrator testing. Shock hardened series not available for export.

| Part Number | Voltage (85°C) | Capacitance (µF) | ESR (mΩ) | Diameter (in) | Height (in) |
|-------------|----------------|------------------|----------|---------------|-------------|
| RSS160564   | 16             | 500,000          | 4000     | 1.1           | 0.95        |
| RES160504   | 16             | 500,000          | 15000    | 1.2           | 1.05        |

## THQ-A2/M2



THQA2 and THQM2 series provide high power in a compact, hermetic, tantalum package. The THQM2 series offer a 4 pin stud mount case.

| Part Number | DLA PN   | Voltage (85°C) | Voltage (125°C) | Capacitance (µF) | ESR (mΩ) | Diameter (in) | Height (in) |
|-------------|----------|----------------|-----------------|------------------|----------|---------------|-------------|
| THQA2010103 | 04005-01 | 10             | 6               | 10,000           | 200      | 0.6           | 0.274       |
| THQM2010103 | 04005-11 | 10             | 6               | 10,000           | 200      | Ref Spec      | 0.45        |
| THQA2016502 | 04005-02 | 16             | 9.5             | 5,000            | 200      | 0.6           | 0.274       |
| THQM2016502 | 04005-12 | 16             | 9.5             | 5,000            | 200      | Ref Spec      | 0.45        |
| THQA2025382 | 04005-03 | 25             | 15              | 3,800            | 200      | 0.6           | 0.274       |
| THQM2025382 | 04005-13 | 25             | 15              | 3,800            | 200      | Ref Spec      | 0.45        |
| THQA2030302 | 04005-04 | 30             | 18              | 3,000            | 250      | 0.6           | 0.274       |
| THQM2030302 | 04005-14 | 30             | 18              | 3,000            | 250      | Ref Spec      | 0.45        |
| THQA2035252 | 04005-05 | 35             | 21              | 2,500            | 250      | 0.6           | 0.274       |
| THQM2035252 | 04005-15 | 35             | 21              | 2,500            | 250      | Ref Spec      | 0.45        |
| THQA2050152 | 04005-06 | 50             | 30              | 1,500            | 250      | 0.6           | 0.274       |
| THQM2050152 | 04005-16 | 50             | 30              | 1,500            | 250      | Ref Spec      | 0.45        |
| THQA2060871 | 04005-07 | 60             | 36              | 875              | 350      | 0.6           | 0.274       |
| THQM2060871 | 04005-17 | 60             | 36              | 875              | 350      | Ref Spec      | 0.45        |
| THQA2075561 | 04005-08 | 75             | 45              | 565              | 500      | 0.6           | 0.274       |
| THQM2075561 | 04005-18 | 75             | 45              | 565              | 500      | Ref Spec      | 0.45        |
| THQA2100361 | 04005-09 | 100            | 60              | 360              | 800      | 0.6           | 0.274       |
| THQM2100361 | 04005-19 | 100            | 60              | 360              | 800      | Ref Spec      | 0.45        |
| THQA2125211 | 04005-10 | 125            | 75              | 215              | 1250     | 0.6           | 0.274       |
| THQM2125211 | 04005-20 | 125            | 75              | 215              | 1250     | Ref Spec      | 0.45        |

## Advanced Capacitors for Demanding Applications

### The EVANSCAP Advantage

- Significant savings of space, weight, and power compared to other capacitor technologies
- Qualified and in service with all tier 1 aerospace and defense contractors
- Ultra-low ESR and inductance
- Withstands high current, temperature, shock, and vibration
- Rugged hermetically sealed Hi-Rel designs

### Common Applications

- Radar
- Laser
- Filtering
- Power Hold-Up/Bridge Power (MIL-STD 704/DO-160)
- Space Applications (Qualified to NASA INST-002)
- Downhole Drilling
- Electronic Warfare

## THQS2 Shock Hard Series

THQS2 series "Shock Hard" hybrid capacitors are for applications with high impact shock requirements. Unlimited shelf life. Applications are limited cycle, limited time on charge such as missile fusing and short duration power hold up. Impact shock capability of 30,000g and higher. THQS2 products are not for export.

| Part Number | Voltage (85°C) | Voltage (125°C) | Capacitance (µF) | ESR (mΩ) | Diameter (in) | Height (in) |
|-------------|----------------|-----------------|------------------|----------|---------------|-------------|
| THQS2008133 | 8              | 4.8             | 13,000           | 200      | 0.6           | 0.341       |
| THQS2010103 | 10             | 6               | 10,000           | 200      | 0.6           | 0.341       |
| THQS2016622 | 16             | 9.5             | 6,250            | 200      | 0.6           | 0.341       |
| THQS2025442 | 25             | 15              | 4,400            | 200      | 0.6           | 0.341       |
| THQS2035292 | 35             | 21              | 2,900            | 250      | 0.6           | 0.341       |
| THQS2050162 | 50             | 30              | 1,600            | 250      | 0.6           | 0.341       |

## THQA2-HT High Temperature Series

THQA2-HT Series hybrid capacitors are suitable for operation up to 200°C. THQA2-HT Hybrid Capacitors are in the same form factor as the standard THQA2, with a life of 1,000 hours at 200°C or 2,000 hours at 175°C.

| Part Number   | Voltage (175°C) | Voltage (200°C) | Capacitance (µF) | ESR (mΩ) | Diameter (in) | Height (in) |
|---------------|-----------------|-----------------|------------------|----------|---------------|-------------|
| THQA2010103HT | 5               | 4               | 10000            | <300     | 0.6           | 0.274       |
| THQA2016502HT | 8               | 6.4             | 5000             | <300     | 0.6           | 0.274       |
| THQA2025382HT | 12.5            | 10              | 3800             | <300     | 0.6           | 0.274       |
| THQA2030302HT | 15              | 12              | 3000             | <350     | 0.6           | 0.274       |
| THQA2035252HT | 17.5            | 14              | 2500             | <350     | 0.6           | 0.274       |
| THQA2050152HT | 25              | 20              | 1500             | <350     | 0.6           | 0.274       |
| THQA2060871HT | 30              | 24              | 870              | <350     | 0.6           | 0.274       |
| THQA2075561HT | 37.5            | 30              | 565              | <500     | 0.6           | 0.274       |
| THQA2100361HT | 50              | 40              | 360              | <800     | 0.6           | 0.274       |
| THQA2125211HT | 62.5            | 50              | 215              | <1250    | 0.6           | 0.274       |

## HQ Series



HQ Capacitors come in a polymer case and provide high capacitance values in a lightweight package. Specifications are per the DLA 04002 spec.

| Part Number | DLA PN   | Voltage (70°C) | Capacitance (µF) | ESR (mΩ) | L x W (in)   | Height (in) |
|-------------|----------|----------------|------------------|----------|--------------|-------------|
| HQ1010503   | 04002-01 | 10             | 50,000           | 50       | 1.63 x 1.645 | 0.29        |
| HQ1016363   | 04002-02 | 16             | 36,000           | 50       | 1.63 x 1.645 | 0.29        |
| HQ1025233   | 04002-03 | 25             | 23,000           | 50       | 1.63 x 1.645 | 0.29        |
| HQ1035123   | 04002-04 | 35             | 12,000           | 50       | 1.63 x 1.645 | 0.29        |
| HQ1050802   | 04002-05 | 50             | 8,000            | 60       | 1.63 x 1.645 | 0.29        |
| HQ1063402   | 04002-06 | 63             | 4,000            | 100      | 1.63 x 1.645 | 0.29        |
| HQ1080282   | 04002-07 | 80             | 2,800            | 100      | 1.63 x 1.645 | 0.29        |
| HQ1100192   | 04002-08 | 100            | 1,900            | 125      | 1.63 x 1.645 | 0.29        |
| HQ1110152   | 04002-09 | 110            | 1,500            | 200      | 1.63 x 1.645 | 0.29        |
| HQ1125112   | 04002-10 | 125            | 1,100            | 200      | 1.63 x 1.645 | 0.29        |

## The Industry's Most Power-Dense Capacitor Technology



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