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New DLA 15010 Series High Energy Wet Tantalum Capacitors

Vishay has extended its high energy product line with the new DLA 15010 series of wet tantalum capacitors built on SuperTan® technology. The largest such devices on the market at a given voltage rating and package size – for example, 70 000 uF at 35 V in the D case – this DLA version of the EP2 series has been expanded with new ratings. The devices are tested to 2000 hours of life at 85 °C and 125 °C and have the highest energy density available. Note: DLA 15010 parts are not normally stocked and are built to order. Arrangements can be made to stock at your preferred catalog house or distributor.

Released Ratings

| B case | C case |
|---------------|----------------|
| 22 mF - 50 V | 33 mF - 50 V |
| 9.4 mF - 63 V | 19.6 mF - 60 V |
| 3 mF - 125 V | |

Applications

DLA 15010 series capacitors are useful in any power supply where long hold-up time is needed or high pulse / ripple current must be filtered, in addition to pulsed power applications such as LiDAR and radar. They can be designed into capacitor banks to meet both high capacitance and energy needs, and can handle voltages higher than 125 V, as seen in the industrial, avionics, military, and space markets.

Key Advantages

- Very high volumetric energy density, up to 2 J/cc
- Hermetically sealed tantalum package
- Wide voltage range: 25 V – 125 V
- Radial and surface-mountable
- Low ESR down to 12 mΩ

Useful Links

- [Product Page](#)
- [Infographic](#)
- [Did You Know: Six Reasons to Rely on Wet Tantalum High Energy Capacitors](#)
- [Capabilities and Custom Options](#)



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| RATINGS AND CASE CODES (ESR mΩ) | | | | | | | | | |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|------------|
| μF | 25 V | 35 V | 50 V | 60 V | 63 V | 80 V | 100 V | 110 V | 125 V |
| 1500 | | | | | | | | | EP2A (100) |
| 1900 | | | | | | | | | EP2A (100) |
| 2000 | | | | | | | | | EP2A (100) |
| 2200 | | | | | | | | EP2A (85) | |
| 2700 | | | | | | | | | EP2B (45) |
| 3000 | | | | | | | EP2A (65) | | EP2B (45) |
| 3600 | | | | | | | | | EP2B (50) |
| 3800 | | | | | | | | | EP2B (50) |
| 4000 | | | | | | EP2A (55) | | EP2B (40) | |
| 4400 | | | | | | | EP2B (30) | | |
| 4500 | | | | | | | | | EP2C (25) |
| 5300 | | | | | | | | | EP2C (35) |
| 5600 | | | | | | | | | EP2C (35) |
| 5800 | | | | | | | EP2B (35) | | |
| 6000 | | | | | EP2A (50) | EP2B (27) | | EP2C (27) | |
| 6300 | | | | EP2A (50) | | | | | |
| 6600 | | | | | | | EP2C (20) | | |
| 7000 | | | | | | EP2B (30) | | | EP2D (20) |
| 7900 | | | | | | | EP2C (25) | | |
| 8000 | | | | | | EP2B (30) | | EP2D (20) | |
| 9000 | | | | | | EP2B (30) / EP2C (18) | EP2C (25) | | |
| 9400 | | | | | EP2B (25) | | | | |
| 10 500 | | | | | | | EP2D (20) | | |
| 11 000 | | | | | EP2B (25) | | | | |
| 12 000 | | | | | EP2B (25) | EP2C (20) | | | |
| 12 600 | | | | EP2B (25) | | | | | |
| 13 000 | | | EP2A (50) | | EP2B (25) | | | | |
| 14 000 | | | | | EP2C (17) | EP2C (20) | | | |
| 16 000 | | | | | | EP2D (15) | | | |
| 17 000 | | | EP2B (25) | | | | | | |
| 18 000 | | | | | EP2C (20) | | | | |
| 19 000 | | | | EP2C (17) | | | | | |
| 22 000 | | EP2A (40) | EP2B (25) | | | | | | |
| 23 000 | | | EP2C (17) | | | | | | |
| 24 000 | | | EP2B (27) | | EP2D (12) | | | | |
| 25 000 | | | | | EP2D (15) | | | | |
| 30 000 | EP2A (30) | | | | | | | | |
| 32 000 | | EP2B (20) | | | | | | | |
| 33 000 | | | EP2C (17) | | | | | | |
| 34 000 | | | EP2C (18) | | | | | | |
| 37 000 | | | EP2C (20) | | | | | | |
| 40 000 | | EP2B (22) | | | | | | | |
| 44 000 | | | EP2D (15) | | | | | | |
| 47 000 | | EP2C (15) | | | | | | | |
| 48 000 | EP2B (20) | EP2C (15) | EP2D (15) | | | | | | |
| 58 000 | | EP2C (17) | | | | | | | |
| 70 000 | | EP2D (12) | | | | | | | |
| 72 000 | EP2C (15) | | | | | | | | |
| 96 000 | EP2D (12) | | | | | | | | |

- EP2 released ratings
- DLA released ratings

Contact Information

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