



New EP2 Series High Energy Wet Tantalum Capacitors

Vishay has extended its high energy product line with a new 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 μ F at 35 V in the D case – the EP2 series features several new ratings compared to our initial offering three years ago. The devices are available in 12 configurations to accommodate a myriad of applications – from standard radial leaded parts to surface-mountable versions, with and without studs – and four sizes: the A, B, C, and D cases.

Released Ratings

A case	B case	C case	D case
4 mF - 80 V	12 mF - 63 V	23 mF - 50 V	44 mF - 50 V
3 mF - 100 V	4.4 mF - 100 V		
2 mF - 125 V			

Applications

EP2 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 m Ω

Useful Links

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



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

The Americas
David Bellomy
david.bellomy@vishay.com

Europe
Joshua Schlotmann
joshua.schlotmann@vishay.com

Asia / Pacific
Stanley Chan
stanley.chan@vishay.com