



**A WORLD OF SOLUTIONS**







VISHAY INTERTECHNOLOGY, INC.  
**CERAMIC CAPACITORS**

Ceramic RF Power Capacitors

		Product Family	Series	Rated Voltage	Capacitance	Ceramic	Max. Current	Max. Reactive Power
RF Power Plate Capacitors	Contour Rim	Vishay Draloric 	<a href="#">PA, PC, PD, PE</a> <a href="#">PS Class 1</a> , <a href="#">PS Class 2</a>	2.0 kV <sub>p</sub> to 16 kV <sub>p</sub>	5.6 pF to 27 nF	Class 1 (R7, R16, R42, R85, R230) Class 2 Y5U (R3500)	5.0 A <sub>RMS</sub> to 60 A <sub>RMS</sub>	0.25 kvar to 150 kvar
	HV	Vishay Draloric 	<a href="#">FPE</a> <a href="#">FPS</a> <a href="#">FPZ, PEZ</a>	10 kV <sub>p</sub> to 30 kV <sub>p</sub> or 3.5 kV <sub>p</sub> to 30 kV <sub>p</sub>	50 pF to 2.5 nF	Class 1 (R16, R42, R85)	13 A <sub>RMS</sub> to 90 A <sub>RMS</sub>	10 kvar to 160 kvar
	HV Silicone Protection	Vishay Draloric 	<a href="#">PEF220</a>	12 kV <sub>p</sub> to 20 kV <sub>p</sub>	160 pF to 10 nF	Class 1 (R7, R16, R42, R85, R230)	60 A <sub>RMS</sub> to 125 A <sub>RMS</sub>	30 kvar to 140 kvar
RF Power Barrel Capacitors	General Purpose	Vishay Draloric 	<a href="#">TOS 16, 25</a> <a href="#">TOS 16, 25</a> <a href="#">TOS 20</a> <a href="#">TOS 30</a>	5.0 kV <sub>p</sub> to 9.0 kV <sub>p</sub>  7.5 kV <sub>DC</sub> to 15 kV <sub>DC</sub>	1.5 pF to 2.5 nF	Class 1 (R7, R16, R42, R85, COG, U2J, S8L, V8M) Class 2 X7R (R2000), Y5U (R4000)	0.3 A <sub>RMS</sub> to 26 A <sub>RMS</sub>	0.2 kvar to 35 kvar
		Vishay Cera-Mite 	<a href="#">5F.</a> <a href="#">5FAE</a> <a href="#">7FAA</a> <a href="#">7FAU</a>	5.0 kV <sub>DC</sub> to 7.5 kV <sub>DC</sub>	3.0 pF to 1.0 nF	Class 1 COG (NP0), U2J (N750) Class 2 (X5U)	0.3 A <sub>RMS</sub> to 9.5 A <sub>RMS</sub>	0.15 kvar to 10 kvar
	HQ	Vishay Draloric 	<a href="#">TOSW 118115</a> <a href="#">TOSZ 080110</a> <a href="#">TOSZ 100110</a> <a href="#">TOSZ 118078</a> <a href="#">TOSZ 118100</a> <a href="#">TOSZ 120055</a>	9.0 kV <sub>p</sub> to 30 kV <sub>p</sub>	25 pF to 250 pF	Class 1 (R16HQ)	60 A <sub>RMS</sub> to 203 A <sub>RMS</sub>	Up to 1941 kvar
	HV		<a href="#">TOSZ 114096</a>	40 kV <sub>p</sub>	1.0 nF	Class 1 (R230)	30 A <sub>RMS</sub>	40 kvar
	General Purpose	Vishay Draloric 	<a href="#">DB 16</a> <a href="#">DB 30</a> <a href="#">DB 45</a> <a href="#">DB 50</a> <a href="#">DBZ 12</a> <a href="#">DBZ 34</a> <a href="#">DGZ</a> <a href="#">DF 16</a> <a href="#">DF 30</a> <a href="#">DS 30</a> <a href="#">DS 50</a> <a href="#">DWB 45</a>	3.0 kV <sub>p</sub> to 20 kV <sub>p</sub>	100 pF to 4.7 nF	Class 1 (R7, R16, R42, R85, R230)	4.0 A <sub>RMS</sub> to 70 A <sub>RMS</sub>	4.0 kvar to 200 kvar
HQ	Vishay Draloric 	<a href="#">DB, DBZ</a> <a href="#">DBF</a>	20 kV <sub>p</sub> to 25 kV <sub>p</sub>	100 pF to 125 pF	Class 1 (R16HQ)	120 A <sub>RMS</sub> to 150 A <sub>RMS</sub>	550 kvar to 900 kvar	
HV		<a href="#">DBF</a>	20 kV <sub>p</sub> to 40 kV <sub>p</sub>	500 pF to 3.0 nF	Class 1 (R85, R230)	50 A <sub>RMS</sub> to 87 A <sub>RMS</sub>	50 kvar to 100 kvar	



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<b>RF Power Tubular Capacitors</b>	Vishay Draloric 	<a href="#">R. 12</a> <a href="#">R. 16</a> <a href="#">R. 20</a> <a href="#">RD 30, RD 45</a>	2.0 kV <sub>p</sub> to 11 kV <sub>p</sub>	3.0 pF to 4.7 nF	Class 1 (R7, R16, R42, R85, R230)	4.0 A <sub>RMS</sub> to 60 A <sub>RMS</sub>	0.7 kvar to 60 kvar
<b>RF Power Pot Capacitors</b>	Vishay Draloric 	<a href="#">T. 20</a> <a href="#">T. 30</a> <a href="#">T. 45</a> <a href="#">T. 50</a> <a href="#">T. 85</a>	6.0 kV <sub>p</sub> to 15 kV <sub>p</sub>	10 pF to 6.0 nF	Class 1 (R7, R16, R42, R85, R230)	6.0 A <sub>RMS</sub> to 20 A <sub>RMS</sub>	3.5 kvar to 70 kvar
		<a href="#">TDZ 45, 50</a> <a href="#">TDFZ 12</a>	12 kV <sub>p</sub> to 18 kV <sub>p</sub>	100 pF to 2.0 nF	Class1 (R16HQ)	65 A <sub>RMS</sub> to 290 A <sub>RMS</sub>	500 kvar to 2540 kvar
		<a href="#">TDFZ 170</a> <a href="#">TDZ 50, 60</a> <a href="#">TDFZ 70</a>	15 kV <sub>p</sub> to 40 kV <sub>p</sub>	2.0 nF to 15 nF	Class1 (N3300, R85, R230)	20 A <sub>RMS</sub> to 170 A <sub>RMS</sub>	12.5 kvar to 230 kvar
<b>Watercooled RF Power Pot Capacitors</b>	External Cooling 	<a href="#">TWX, TWXF</a>	10 kV <sub>p</sub> to 25 kV <sub>p</sub>	100 pF to 10 nF	Class 1 (R7, R16, R42, R85)	150 A <sub>RMS</sub> to 350 A <sub>RMS</sub>	1000 kvar to 4000 kvar
	Internal Cooling 	<a href="#">TWXFZ 106</a> <a href="#">TWXFZ 140</a>	14 kV <sub>p</sub> to 27 kV <sub>p</sub>	4 nF to 10 nF	Class 1 (R85)	250 A <sub>RMS</sub> to 350 A <sub>RMS</sub>	
		<a href="#">TWIF</a>	14 kV <sub>p</sub>	1.0 nF to 4.7 nF	Class 1 (R42, R85)	200 A <sub>RMS</sub>	
<b>Stand-Off Insulators</b>	Vishay Draloric 	<a href="#">3540/6 to 35125/6</a> <a href="#">4040/6, 5058/6</a>	Made of class 1 ceramic material; 40 mm to 125 mm height; 35 mm to 50 mm diameter; with massive M6 thread terminals on both ends; for RF generator equipment				

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