

По вопросам продаж и поддержки обращайтесь:

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Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
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Custom Capabilities Aluminum Electrolytic Capacitors



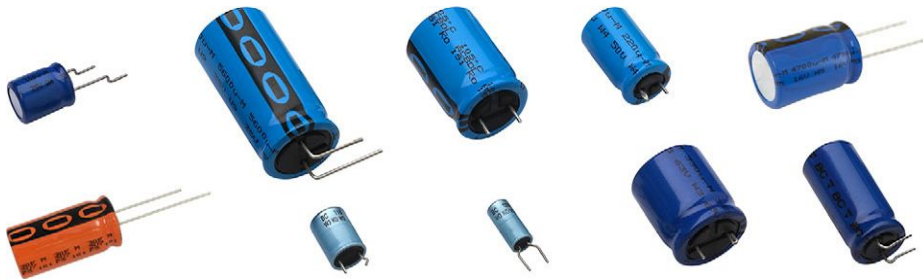
CAPABILITIES

The aluminum electrolytic capacitor division can offer almost everything you need. In this document you'll find a few examples.

- Vibration resistivity
- Customized marking / sleeving
- Customized packing
- Keyed-polarity
- Special lead styles
- 4 pin and 6 pin SMD's
- Capacitor modules (integration of capacitor banks on carrier)

We will display our custom capabilities per form.

RADIAL



For our radial products we can offer special lead styles (J-, L-, Z-, V-, T-lead). The J-lead for example can be used for inverse-polarity protection. Next to that we do offer 3-pin radials. The benefit of 3-pins is that you do not need any additional fixation and the parts can handle a higher vibration compared to conventional 2-pin solutions.

For the special lead styles we can offer customized tray packs and box packaging. This to prevent that the leads will bend during transport.

High vibration proofed versions with special case design are available in separate series (vibration proofed up to 50 g).





Aluminum Electrolytic Capacitors

Vishay

AXIAL



For our axial products we can offer the special lead styles and customized packaging as well.

Next to that we can offer our axial products with the classic mounting ring as well:



SCREW TERMINAL



For our screw terminal products customization is daily business. Due to the value of the parts most of our customers ask for solutions which fit 1:1 into their design.

A few examples are:

- non-standard capacity / voltage combinations
- longer life time products
- non-standard case sizes (in case you have a maximum diameter / length in your application)
- different treads / terminals (like M5-13 mm, M6-18 mm, or 1/4-28 UNF US tread)
- bar code labeling
- your own logo / text on the sleeve of the product
- keyed polarity terminals (inverse-polarity protection)

SMD



For our SMD products we offer 4-pin and 6-pin SMD baseplates: no additional gluing necessary; higher vibration resistance compared to conventional 2-pin solutions; sizes up to 18 mm x 21 mm possible.

High vibration proofed versions with special case design are available in separate series (vibration proofed up to 30 g).

SNAP-IN



For our snap-in products we can offer non-standard capacity / voltage combinations in the case size of your need. Next to that we can offer customized marking or sleeves. We offer next to the standard 2-pin also 3-pin and 4-pin parts.

One of the solutions we offer is a returnable stick packing for automatic insertion:



Custom Capabilities Watercooled RF Power Pot Capacitors



OVERALL CAPABILITIES

- Production in Germany
- High quality, service, and flexibility
- ISO 9001, OHSAS 18001, environmental 14001 qualified
- STEP files available
- Operating temperature range -55 °C to +100 °C

MATERIAL / PROCESS CAPABILITIES

- Wide range of capacitance values
- Numerous shapes and sizes available
- Fittings specifically designed for your application
- Selection of internal and external cooling
- Lead (Pb)-free available

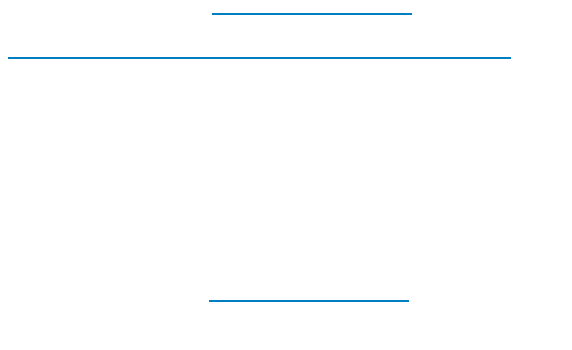
DIFFERENCE TWX AND TWXF



The TWX model is made with a contoured, glazed insulation rim designed for use in a relative clean, dry environment.







The TWXF types feature an umbrella shaped coating rim made from silicone elastomer to minimize the adverse effects of moisture, dust, and other impurities in the working environment, and to improve the characteristics of the electrical field.



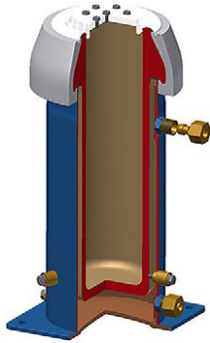


Ceramic Power Capacitors

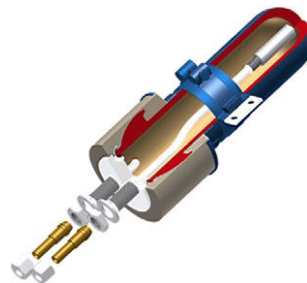
Vishay Draloric



ADDITIONAL CAPABILITIES EXAMPLES	
TOSW 118115	TWIF 085175, TWIF 085215, TWIF 085260
	
TWXFZ 106266	TWXFZ 140266, TWXFZ 140316, TWXFZ 140376
	

EXTERNAL WATERCOOLED



INTERNAL WATERCOOLED



ADDITIONAL CUSTOM EXAMPLES	
TDFZ 170	TWXF 135285
	

With many years of experience in the development, we can find the best solution for your project together!



Custom Capabilities RF Power Plate Capacitors



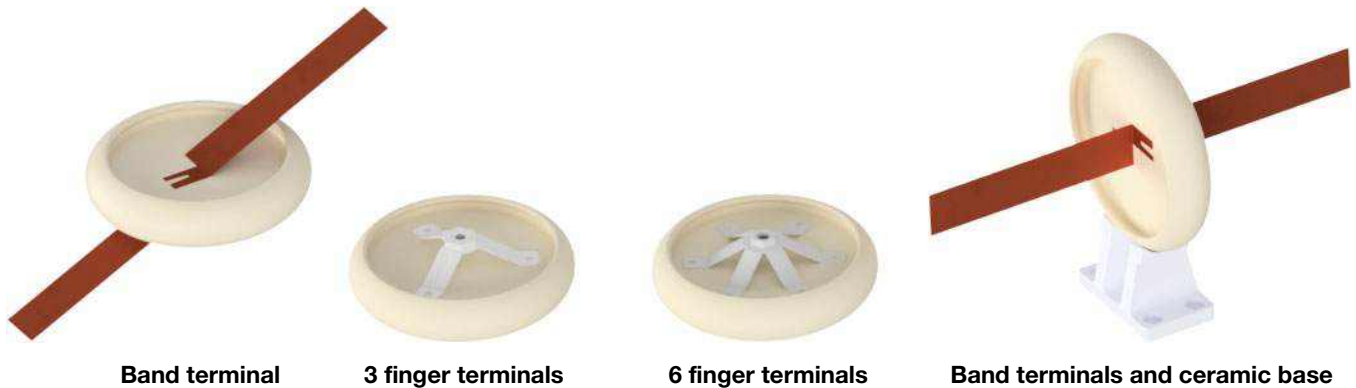
OVERALL CAPABILITIES

- Production in Germany
- High quality, service, and flexibility
- ISO 9001, OHSAS 18001, environmental 14001 qualified
- STEP files available
- Operating temperature range -55 °C to +100 °C

MATERIAL / PROCESS CAPABILITIES

- Wide range of capacitance values
- Selection of different class 1 ceramics
- Numerous shapes and sizes available
- Fittings specifically designed for your application
- Lead (Pb)-free available

FITTING EXAMPLES









Band terminal



3 finger terminals

6 finger terminals

Band terminals and ceramic base

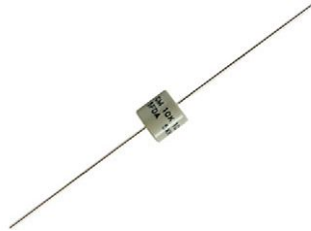


ADDITIONAL CAPABILITIES EXAMPLES	
FPE 200, FPE 210	FPS 60, FPS 80, FPS 110
	
FPZ 140, PEZ 140	PEF 220
	
PS 20, PS 30, PS 40, PS 55 - CLASS 1 CERAMIC	PS 20, PS 30, PS 40, PS 55 - CLASS 2 CERAMIC
	

ADDITIONAL CUSTOM EXAMPLES	
FPP 140	PZ 140
	

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Custom Capabilities RF Power Barrel Capacitors



OVERALL CAPABILITIES

- Production in Germany
- High quality, service, and flexibility
- ISO 9001, OHSAS 18001, environmental 14001 qualified
- STEP files available
- Operating temperature range -55 °C to +85 °C

MATERIAL / PROCESS CAPABILITIES

- Wide range of capacitance values
- Selection of different class 1 and class 2 ceramics
- Numerous shapes and sizes available
- Fittings specifically designed for your application
- Lead (Pb)-free available

FITTING EXAMPLES



Screw terminal
(metric and UNF/UNC thread available)
for series 5FF, 5FG, and 5FH



Axial wire lead
for series 5FC, 5FD, and 5FE



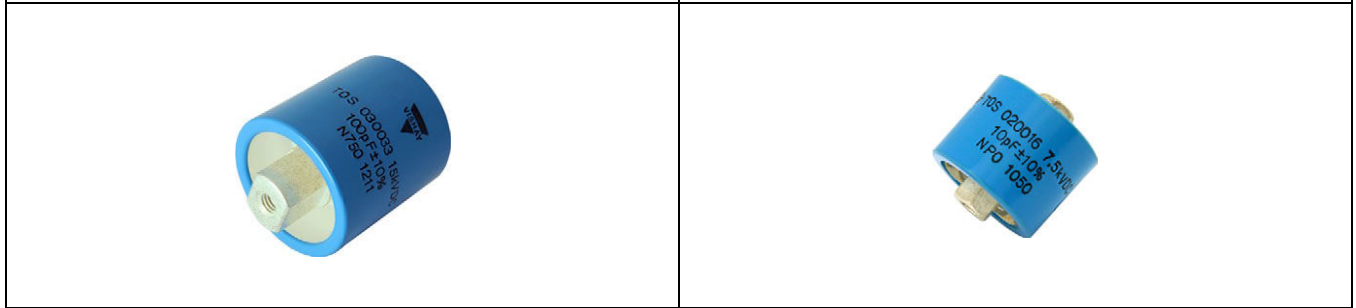
Screw terminal with hexagon
(metric and UNF/UNC thread available)
for series 5FAE, 7FAA, and 7FAU

ORDERING CODE					
7F	A	A	500	K	-R
SERIES RATED VOLTAGE	BODY STYLE	CERAMIC DIELECTRIC	C-VALUE	TOLERANCE	LEAD (Pb)-FREE
5F = 5 kV - series 7F = 7.5 kV - series	Depend on the fittings and diameter	Examples: A = NP0 U = N750	Examples: 500 = 50 pF 9R0 = 9 pF	K = 10 % J = 5 %	

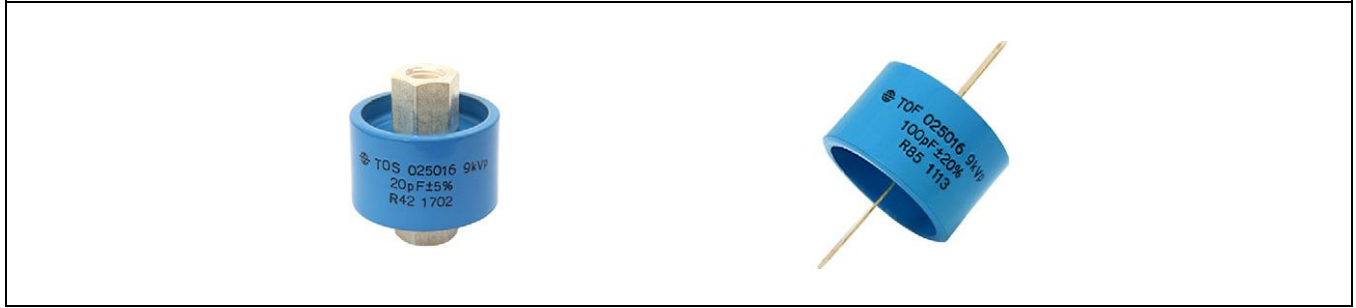


ADDITIONAL CAPABILITIES EXAMPLES

TOS 030033	TOS 020016
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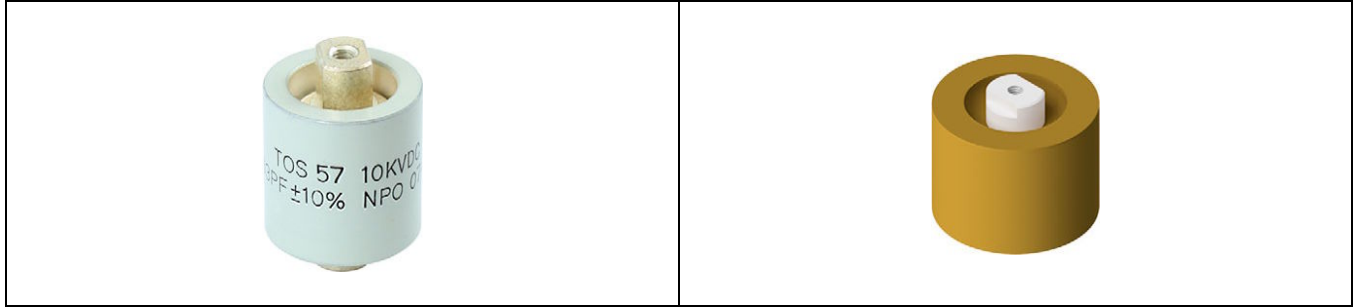


TOF 016010, TOS 016010, TOF 025016, TOS 025016
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ADDITIONAL CUSTOM EXAMPLES

TOS 0057	TOZ 045033
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Custom Capabilities ESTA Power Capacitors



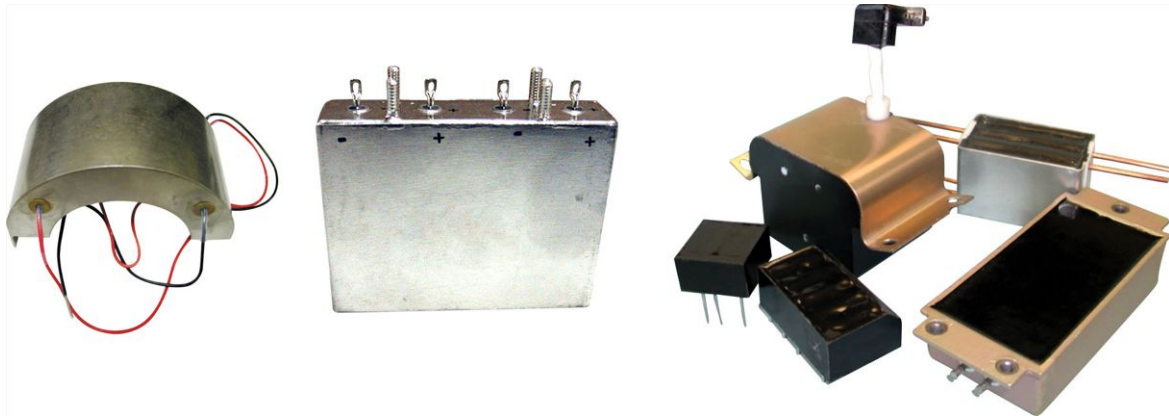
CAPABILITIES

- Power capacitors as per customer specification for all low voltage, high voltage, and power electronic applications

APPLICATION EXAMPLE



Custom Capabilities Wet Tantalum Assemblies and Arrays



CAPABILITIES

- Custom case and termination options
- High capacitance and / or high voltage options
- Single or dual ratings
- Dielectric options: Aluminum, Ceramic, Tantalum
- Standard tin / lead, 100 % tin, and high temperature "HMP" assembly process available

CUSTOM DESIGN

Custom designed capacitor assemblies are an important tool for circuit designers faced with extra high capacitance and / or voltage requirements not met by standard units. In most cases, Vishay capacitor assemblies employ internal sections of wet tantalum capacitors. However, an assembly may utilize solid tantalum, ceramics, and even aluminum internal sections, along with resistors and other components as needed to meet the electrical parameters and performance required. Dual or plural ratings are also available in a single assembly.

Vishay capacitor assemblies have been used in avionics, military and space applications for many years. They are also an important component for oil exploration equipment and other industrial applications.

The capacitor assembly may prove valuable in any application where there are high capacitance / voltage needs and critical space limitations exist, or multiple functions are required in one package.

Because tantalum capacitors can be designed to provide a wide range of parameters, they allow simplified circuit design and a lower cost solution. Reliability depends on the capacitor elements used, while cost reflects both capacitor type picked and quantity required.

ADDITIONAL CUSTOM EXAMPLES



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