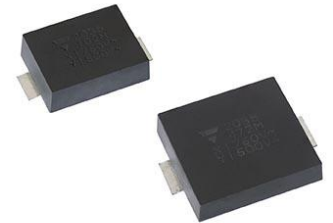


Industry’s First SMD Ceramic Safety Capacitors With Y1 Rating of 500 V_{AC} and 1500 V_{DC} Deliver Industry-High Capacitance to 4.7 nF, While Offering High Humidity Robustness and Reducing Production Costs

Product Benefits:

- Y1 rating of 500 V_{AC} and 1500 V_{DC}
- High capacitance to 4.7 nF
- High humidity robustness with a Class IIB humidity grade (in accordance with IEC60384-14 annex I) and a moisture sensitivity level of 2a
- RoHS-compliant and halogen-free



Market Applications:

- EMI / RFI filtering in power supplies, solar inverters, smart meters, and LED drivers

The News:

Vishay Intertechnology introduces a new series of surface-mount AC line rated ceramic disc safety capacitors that are the industry’s first such devices to offer a Y1 rating of 500 V_{AC} and 1500 V_{DC}. Designed to withstand harsh, high humidity environments, the Vishay BCcomponents SMDY1 series devices offer industry-high capacitance to 4.7 nF.

- The closest competing devices only offer capacitance up to 1.5 nF and Y1 ratings to 300 V_{AC}, with no DC rating
- Allowing for surface-mount assembly with a reflow soldering process, SMDY1 series capacitors reduce production costs
- Compared to through-hole devices, the capacitors offer a lower profile and eliminate the need for clearance space on the backside of the PCB
- Consist of a copper-plated ceramic disc and feature encapsulation made of flame-resistant epoxy resin in accordance with UL 94 V-0

The Key Specifications:

Series	SMDY1	
Ceramic class	2	
Ceramic dielectric	Y5U	
Voltage (V _{AC})	Y1: 500 (1500 V _{DC})	X1: 760
Min. capacitance (pF)	470	
Max. capacitance (pF)	4700	
Capacitance tolerance (%)	± 20	
Mounting	Surface mount	



NEW PRODUCT INFORMATION



Product Group: Vishay BCcomponents, Capacitors / February 2021

Availability:

Samples and production quantities of the SMDY1 series will be available in Q1 2021, with lead times of 10 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?28566> (SMDY1)

Contact Information:

THE AMERICAS

Kevin Palmer

kevin.palmer@vishay.com

EUROPE

Martin Leupold

martin.leupold@vishay.com

ASIA/PACIFIC

BH Tan

boonhooi.tan@vishay.com