

New 350 V and 500 to 600 V Rating Options for 299 PHL-4TSI Four-Terminal Snap-in Aluminum Electrolytic Capacitors

Product Benefits:

- Extends 299 PHL-4TSI snap-in, four-terminal aluminum electrolytic capacitor family with new 350 V, 500 V, 550 V, and 600 V rated capacitors
- Greatly expands the range of capacitance-voltage combinations available to designers
- Reduces component counts, lowers costs, increases mechanical stability and end-product lifetimes
- Reach- and RoHS-compliant
- Four-terminal configuration provides increased mechanical stability and keyed polarity



Market Applications:

- Smoothing, filtering, and energy storage
- Switched mode power supplies
- Renewable energy power converters
- Industrial and home appliance inverters
- Energy storage in pulse systems

The News:

Vishay Intertechnology is extending its 299 PHL-4TSI snap-in, four-terminal aluminum electrolytic capacitor family with new 350 V, 500 V, 550 V, and 600 V rated capacitors that greatly expand the range of capacitance-voltage combinations available to designers.

- These four-terminal snap-in capacitors can replace banks of large screw terminal capacitors connected by a bus-bar with smaller parts connected by a PCB. This significantly lowers construction costs and enables soldering processing instead of manual mounting.
- With larger can sizes than standard two-terminal snap-in capacitors — ranging from 35 mm by 50 mm to 45 mm by 100 mm — the 299 PHL-4TSI series limits the number of components required.
- As polarized aluminum electrolytic capacitors with a non-solid electrolyte, 299 PHL-4TSI devices are ideally suited for smoothing, filtering, and energy storage.



Product Selection Chart

New device options are highlighted in yellow

SELECTION CHART FOR C _R , U _R , AND RELEVANT NOMINAL CASE SIZES (∅ D x L in mm)						
C _R (μF)	U _R (V)					
	350	400	450	500	550	600
270	-	-	-	-	-	35 x 50 40 x 40
330	-	-	-	-	35 x 50	35 x 60
390	-	-	-	35 x 50	40 x 40	35 x 70 40 x 50
470	-	-	35 x 50 40 x 40	35 x 60 45 x 40	35 x 60 40 x 50	35 x 80 40 x 60
560	-	35 x 50	35 x 60 40 x 50	35 x 70 40 x 50	35 x 70 40 x 60	35 x 100 40 x 70 45 x 60
680	-	40 x 40	35 x 70	35 x 80 40 x 60 45 x 50	35 x 80 40 x 60	40 x 80 45 x 70
820	35 x 50 40 x 40	35 x 60 40 x 50	35 x 80 40 x 60	35 x 100 40 x 70 45 x 60	35 x 100 40 x 80 45 x 60	40 x 100 45 x 80
1000	35 x 60 40 x 50	35 x 70	35 x 100 40 x 80 45 x 60	40 x 80 45 x 70	45 x 70 45 x 80	45 x 100
1200	35 x 70	35 x 80 40 x 70 45 x 60	45 x 70	40 x 100	40 x 100	-
1500	35 x 80 40 x 60	35 x 100 45 x 70	40 x 100 45 x 80	45 x 100	45 x 100	-
1800	35 x 100 40 x 80 45 x 60	40 x 100 45 x 80	45 x 100	-	-	-
2200	40 x 100 45 x 80	45 x 100	-	-	-	-
2700	40 x 100	-	-	-	-	-
3300	45 x 100	-	-	-	-	-

Availability:

Samples are available from catalog houses in small quantities. Production quantities of all 299 PHL-4TSI values are available now, with lead times of 18 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?28432> (299 PHL-4TSI)

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