



 [www.niccomp.com/series/NSPE-YP](http://www.niccomp.com/series/NSPE-YP)

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## NSPE-YP Series

### High Performance 135C Hybrid Polymer Aluminum E-Cap

With the introduction of the new AEC-Q200 qualified NSPE-YP series, NIC's focus on performance, ruggedness, and operational temperature is evident. The NSPE-YP specification spans 16V~35VDC / 220-1,800  $\mu$ F, representing a substantial increase in capacitance compared to the NSPE-TC series, all within a similar form factor.

Notably, the NSPE-YP series maintains a consistent endurance of 4,000 hours at both 125°C and 135°C, effectively catering to the demanding high-current requirements of contemporary applications in the automotive, robotics, and power converter domains. This holds particular significance for applications including in base stations, servers, routers, and switches.

#### Series Specifications

<b>Series</b>	NSPE-YP
<b>Upgrade From (Replaces)</b>	NSPE-TC, NSPE-TF, NSPE-TJ
<b>Rated Voltage Range</b>	16 – 35 Vdc
<b>Rated Capacitance Range</b>	220 – 1,800 $\mu$ F
<b>Operating Temp. Range</b>	-55 - +135°C
<b>Load Life Rating</b>	4,000 hrs @ 135°C & Rated Voltage

For a full list of part numbers and specifications please refer to the NSPE-YP series page, [www.niccomp.com/series/NSPE-YP](http://www.niccomp.com/series/NSPE-YP)



Scan for more info!

#### Features / Benefits / Advantages

- Endurance: 4,000 hours at 135C
- Higher Ripple Current vs NSPE-TF series
- Larger Capacitance vs. NSPE-TC series
- High Capacitance In Reduced Size
- AEC-Q200 Qualified

#### Applications

- Automotive where higher temperature ratings are required Motor inverters for robotics, etc.
- Inverter and rectifier circuits
- DC-to-DC and AC-to-DC converters where endurance, high ripple and higher capacitance are required including base stations, servers, routers, and switches

