



# LED Street and Tunnel Lighting



## Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

## Features & Benefits

- Replacement opportunity for mercury and sodium vapor lamps in support of European Union Regulation EC 245/2009
- Wide array of solutions to accommodate design parameters such as output power and string voltage
- All products designed to fulfill application lifetime requirement of > 20 years
- Decades of experience in lighting, industrial and automotive applications
- UL, CECC and ENEC approvals
- Global manufacturing and local development and service
- Standard, optimized and custom designs available

## Product Checklist

- Which LED type/brand is used?
- What is the targeted output voltage, current and power?
- How many LEDs are connected in series, and how many strings of LEDs are connected in parallel?
- What is the environmental temperature for the capacitors?
- What space is available, especially if an axial electrolytic is used? Does it need to be mounted vertical?
- When does the design-in window close, and when is the production start foreseen?
- What is the expected annual demand after ramp-up?
- Who will produce the design (e.g., which EMS if applicable)?
- Are there any special requirements?

**For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.**

## Programs Supported

- AC/DC converters, EMI filters
- LED driver circuits
- Microcontroller units

## KEMET Products

Product Family	KEMET Series	Form
<b>AC/DC Converters, EMI Filters</b>		
Standard Film – X & Y	X2: PHE840, R46	Box type, wire terminals
Capacitors	Y2: PHE850, R41	
<b>LED Driver Circuits</b>		
Standard Film	F461-464, R76, PHE450, F611-612	Box type, wire terminals
Aluminum Electrolytic	PEG225, PEH124, A521, A141	Axial
Ta MnO2	T491, T494, T495	SMD
Ta KO	T520, T521, T525, T530	SMD
Ceramics	Standard X7R, X5R	SMD
<b>Microcontroller Unit</b>		
Ceramics	Standard X7R, X5R	SMD

## Block Diagram

