



LEDs That Shine as Halogen MR16 and GU10 Replacements



Sharp's Petit Zenigata Chip on Board (COB) LED puts the many benefits of LED lighting technology at your fingertips for spot or track lighting designs. The Petit's small footprint – just 8 mm x 12 mm – packs a big punch, with products in the High CRI line delivering between 300 – 395 lumens of brightness.

LEDs and Halogen Go Head-to-Head

Device	Power	Current	Voltage	Luminous Flux	CCT	Efficacy	Lifetime	Failure Mode	Operating Temp	CRI
Petit Zenigata	4.8W	1.7A	9.6V	330 lm	3000K	68.8 lm/W	>35K hours	Lumen reduction to 70% of initial	<100°C	92
Halogen MR16	20W	0.7A	12V	240 lm	3000K	12 lm/W	3K hours	Burn-out	>150°C	100

(Petit Zenigata GW5SGD300P05 vs. Phillips Halogen 20MR16/SP10 ESX MR16)

Halogen Hazards:

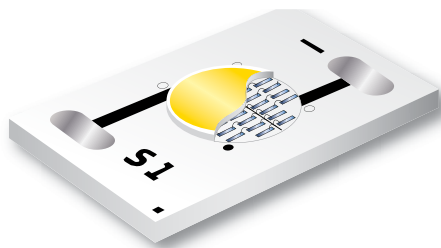
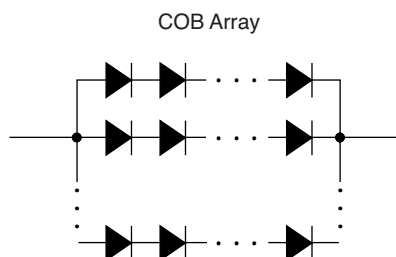
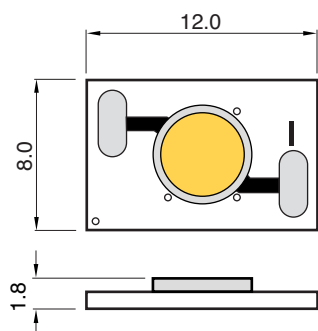
- High Operating Temperature
- Sensitive to Mechanical Shock
- Possible UV and IR Radiation
- Pressurized Lamp Can Explode

LED Benefits:

- Lower Power/Operating Temp.
- 10× Longer Lifetime
- Higher Efficacy
- No UV or IR Radiation

How it Works

9.6V Petit Zenigata products allow a simple “buck” DC-DC converter to be used for MR16 lamps (which normally require 12V). Higher-voltage 40V parts provide an alternative to traditional line voltage in GU10 lamps. All Petit Zenigata LEDs feature a circular Light Emitting Surface (LES) of just 5 mm.



NOTE: Dimensions: mm
Refer to Specifications for full dimensional information

The Color of Life

Lighting products need to be more than just functional and reliable; they must also accurately illuminate the dazzling colors that shape our world. The High CRI Petit Zenigata boasts a minimum 90 CRI – along with Sharp's signature performance all the way through R15 on the CRI index.

CCT		R _a	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
3000K	GW5SGD30P05	93	97	94	89	91	95	92	91	92	87	86	92	84	96	93	95

Applications

- Small Track and Spot Lights
- MR16 and GU10 Replacement
- Small Accent Lights
- Pendant Lights
- Desk Lamp
- Recessed Ceiling Light
- Landscape
- Retail Display
- Head Lamp
- Camping Lantern

The Zenigata Family



	Power Classes			
Mega Zenigata	50W	35W	25W	15W
Mini Zenigata	14W	12W	10W	7W
Petit Zenigata	6W	5W	4W	

Explore these additional Zenigata
COB LED products at
www.SharpLEDs.com