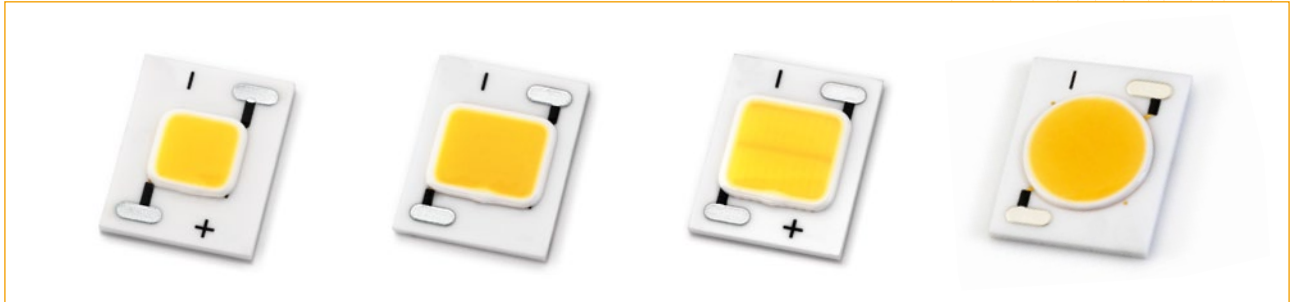


Product Information

MiniZENI LED Series 4W / 7W / 10W / 15W

Status: March 2012



[Applications]

Whatever your lighting application – retrofitting, spot or ambient, indoor or outdoor, stationary or mobile – you can set innovative standards with Sharp’s high-performance LED lighting modules marketed as MiniZENI. These LED lighting modules are particularly suitable for retrofit lamps and spotlights. The advantages are obvious – utmost luminescence efficiency, optimum light dispersion, maximum possible lifetime and minimum maintenance for a wide variety of applications:

- Retrofit lamps
- Spot lighting
- Residential lighting (indoors, outdoors, decorative, functional, emergency, safety)
- Commercial building lighting/illumination, e.g. architectural lighting, spot lighting
- Public lighting/illumination, e.g. street, subway/station or bridge lighting
- Industrial lighting, e.g. factory/storage lighting, warehouse lighting, security lighting

[Main features]

- Multiple chip LED with only two terminal connections for easy installation
- CRI of up to 93
- Luminous flux (typ.) of up to 340 lm (I_F 400mA/ V_F 9.6V), 585 lm (I_F 520mA/ V_F 12.3V), 900 lm (I_F 480mA/ V_F 17.7V) and 1550 lm (I_F 400mA/ V_F 39V)
- Luminous efficacy of up to 106 lm/W
- ENERGY STAR® compliant
- Dimensions: 15 x 12 mm
- Long lifetime: 40,000 hrs at 90° package temperature
- Operating temperature range: -30° to +100° C.
- Six different colour temperatures

[Benefits]

- 15 x 12 mm module
- Thin, lightweight, compact and cost-efficient
- Flat surface ensures direct installation on heat sink and excellent thermal dissipation
- Low thermal resistance for efficient thermal management
- Serial/parallel matrix LED array ensures fail-safe operation while offering lowest possible thermal radiation

[Colour options/LED lighting module line-up]

NEW MiniZENI 4W Series

Rth (j-c)=10K/W



Model number	LED colour	Colour temp.	Colour range coordinates (CIE 1931)		Luminous flux (typ.)	CRI		Luminous efficacy
		[K]	X	Y	[lm]	(min.) [Ra]	(typ.) [Ra]	[lm/W]
GW5BMC27KG4	Warm white	2,700	0.464	0.418	300	80	82	78
GW5BMC30KG4	Warm white	3,000	0.435	0.403	310	80	82	81
GW5BMC35KG4	Natural white	3,500	0.409	0.393	320	80	82	83
GW5BMC40KG4	Natural white	4,000	0.376	0.368	330	80	82	86
GW5BMC50KG4	Pure white	5,000	0.346	0.360	340	80	82	89
GW5BMC65KG4	Cool white	6,500	0.313	0.332	340	80	82	89

at 400 mA and 9.6 V

NEW MiniZENI 7W Series

Rth (j-c)=7.6K/W



Model number	LED colour	Colour temp.	Colour range coordinates (CIE 1931)		Luminous flux (typ.)	CRI		Luminous efficacy
		[K]	X	Y	[lm]	(min.) [Ra]	(typ.) [Ra]	[lm/W]
GW5BMF27K04	Warm white	2,700	0.464	0.418	520	80	82	81
GW5BMF30K04	Warm white	3,000	0.435	0.403	535	80	82	84
GW5BMF35K04	Natural white	3,500	0.409	0.393	555	80	82	87
GW5BMF40K04	Natural white	4,000	0.376	0.368	570	80	82	89
GW5BMF50K04	Pure white	5,000	0.346	0.360	585	80	82	91
GW5BMF65K04	Cool white	6,500	0.313	0.332	585	80	82	91

at 520 mA and 12.3 V

NEW MiniZENI 10W Series

Rth (j-c)=4.5K/W



Model number	LED colour	Colour temp.	Colour range coordinates (CIE 1931)		Luminous flux (typ.)	CRI		Luminous efficacy
		[K]	X	Y	[lm]	(min.) [Ra]	(typ.) [Ra]	[lm/W]
GW5BMJ27K04	Warm white	2,700	0.464	0.418	800	80	82	94
GW5BMJ30K04	Warm white	3,000	0.435	0.403	840	80	82	99
GW5BMJ35K04	Natural white	3,500	0.409	0.393	860	80	82	101
GW5BMJ40K04	Natural white	4,000	0.381	0.383	880	80	82	104
GW5BMJ50K04	Pure white	5,000	0.346	0.360	900	80	82	106
GW5BMJ65K04	Cool white	6,500	0.313	0.332	900	80	82	106

at 480 mA and 17.7 V

NEW MiniZENI 15W Series

Rth (j-c)=2.5K/W



Model number	LED colour	Colour temp.	Colour range coordinates (CIE 1931)		Luminous flux (typ.)	CRI		Luminous efficacy
		[K]	X	Y	[lm]	(min.) [Ra]	(typ.) [Ra]	[lm/W]
GW5BGR27K05	Warm white	2,700	0.464	0.418	1,150	90 	93	74
GW5BGR30K05	Warm white	3,000	0.435	0.403	1,170	90 	93	75
GW5BGR40K05	Natural white	4,000	0.381	0.383	1,230	90 	92	79
GW5BGR50K05	Pure white	5,000	0.346	0.360	1,250	90 	90	80
GW5BMR27K05	Warm white	2,700	0.464	0.418	1,350	80 	83	87
GW5BMR30K05	Warm white	3,000	0.435	0.403	1,400	80 	83	90
GW5BMR40K05	Natural white	4,000	0.381	0.383	1,520	80 	82	97
GW5BMR50K05	Pure white	5,000	0.346	0.360	1,550	80 	80	99

at 400 mA and 39 V

Subject to alterations and modifications.

For comprehensive product information please refer to the product specifications.

SHARP

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*Calls cost € 0.14 per minute from German landlines and no more than € 0.42 per minute from the German mobile network.