

Product Information

2nd Generation LED Lighting Modules (4W / 7W / 10W MiniZENI Series)

Status: May 2011



[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 87
- Luminous flux (typ.) of up to 320 lm (I_f 400 mA/ V_f 9.9 V)/560 lm (I_f 520mA/ V_f 13.1 V)/690 lm (I_f 480mA/ V_f 19.6 V)
- Luminous efficacy of up to 82 lm/W
- Dimensions: 15 x 12 mm
- Long lifetime: 40,000 hrs at 80° package temperature
- Operating range: -30° to +90° 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
- Series/parallel matrix LED array ensures fail-safe operation while offering lowest possible thermal radiation

Colour options/LED lighting module line-up






MiniZENI 4W Series **NEW**



Model number	LED colour	Colour temp. [K]	Colour range coordinates (CIE 1931)		Luminous flux (typ.) [lm]	CRI (min.) (typ.)		Luminous efficacy [lm/W]
			X	Y		[Ra]	[Ra]	
GW5BQC27K03	Warm white	2,700	0.464	0.418	290	77	80	73
GW5BQC30K03	Warm white	3,000	0.435	0.403	300	80	 83	76
GW5BQC35K03	Natural white	3,500	0.409	0.393	310	81	 84	78
GW5BQC40KH3	Natural white	4,000	0.376	0.368	310	81	 84	78
GW5BQC50K03	Pure white	5,000	0.346	0.360	320	82	 85	81
GW5BQC65K03	Cool white	6,500	0.313	0.332	320	81	 84	81







MiniZENI 7W Series **NEW**



Model number	LED colour	Colour temp. [K]	Colour range coordinates (CIE 1931)		Luminous flux (typ.) [lm]	CRI (min.) (typ.)		Luminous efficacy [lm/W]
			X	Y		[Ra]	[Ra]	
GW5BQF27K03	Warm white	2,700	0.464	0.418	510	77	80	75
GW5BQF30K03	Warm white	3,000	0.435	0.403	525	80	 83	77
GW5BQF35K03	Natural white	3,500	0.409	0.393	545	81	 84	80
GW5BQF40KH3	Natural white	4,000	0.376	0.368	545	81	 84	80
GW5BQF50K03	Pure white	5,000	0.346	0.360	560	82	 85	82
GW5BQF65K03	Cool white	6,500	0.313	0.332	560	81	 84	82

MiniZENI 10W Series **NEW**



Model number	LED colour	Colour temp. [K]	Colour range coordinates (CIE 1931)		Luminous flux (typ.) [lm]	CRI (min.) (typ.)		Luminous efficacy [lm/W]
			X	Y		[Ra]	[Ra]	
GW5BTJ27K03	Warm white	2,700	0.464	0.418	610	81	 85	65
GW5BTJ30K03	Warm white	3,000	0.435	0.403	630	83	 87	67
GW5BTJ35K03	Natural white	3,500	0.409	0.393	650	83	 87	69
GW5BTJ40KH3	Natural white	4,000	0.381	0.383	670	83	 87	71
GW5BTJ50K03	Pure white	5,000	0.346	0.360	690	83	 87	73
GW5BTJ65K03	Cool white	6,500	0.313	0.332	690	81	 85	73

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.