

Product Information

1st Generation LED Lighting Modules (3.6W/ 6.7W Series)

Status: May 2011



[Applications]

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

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

[Main features]

ZENIGATA

- Multiple chip LED with only two terminal connections for easy installation
- CRI of up to 94
- Luminous flux (typ.) of up to 280 lm (I_f 360 mA/ V_f 10.2 V) and 540 lm (I_f 640 mA/ V_f 10.5 V)
- Luminous efficacy of up to 80 lm/W
- Dimensions: 18 x 18 mm
- Long lifetime: 40,000 hrs at 80° package temperature
- Operating range: -30° to +90° C.
- Seven different colour temperature options

MiniZENI

- Multiple chip LED with only two terminal connections for easy installation
- CRI of up to 87
- Luminous flux (typ.) of up to 230 lm (I_f 360 mA/ V_f 10.2 V)/ 410 lm (I_f 640 mA/ V_f 10.2 V)
- Luminous efficacy of up to 63 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]

ZENIGATA

- 18 x 18 mm square module for space-efficient array arrangement
- Thin, lightweight and compact
- 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

MiniZENI

- 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

ZENIGATA 3.6W Series



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]	
GW5BQC15L02	Warm white	2,700	0.458	0.410	160		85	44
GW5BDC15L02	Warm white	2,800	0.452	0.409	200		70	54
GW5BTC15L02	Warm white	3,000	0.434	0.403	190		85	52
GW5BRC15L02	Natural white	4,000	0.382	0.380	180		94	49
GW5BWC15L02	Pure white	5,000	0.345	0.351	280		60	76
GW5BNC15L02	Pure white	5,000	0.345	0.351	190		90	52
GW5BNC15L12	Cool white	6,500	0.316	0.324	190		90	52

MiniZENI 3.6W Series



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]		
GW5BTC27K00	Warm white	2,700	0.464	0.418	200	83		87	54
GW5BTC30K00	Warm white	3,000	0.435	0.403	210	83		87	57
GW5BTC35K00	Natural white	3,500	0.409	0.393	220	83		87	60
GW5BTC40KH0	Natural white	4,000	0.376	0.371	220	83		87	60
GW5BTC50K00	Pure white	5,000	0.346	0.360	230	83		87	63
GW5BTC65K00	Cool white	6,500	0.313	0.332	230	83		87	63

ZENIGATA 6.7W Series



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]	
GW5BQF15L0B	Warm white	2,700	0.458	0.410	300		85	45
GW5BDF15L00	Warm white	2,800	0.452	0.409	400		70	59
GW5BTF15L0B	Warm white	3,000	0.434	0.403	360		85	54
GW5BRF15L0B	Natural white	4,000	0.382	0.380	340		94	51
GW5BWF15L00	Pure white	5,000	0.345	0.351	540		60	80
GW5BNF15L00	Pure white	5,000	0.345	0.351	350		90	52
GW5BNF15L10	Cool white	6,500	0.316	0.324	350		90	52

MiniZENI 6.7W Series



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]		
GW5BTF27K00	Warm white	2,700	0.464	0.418	355	83		87	54
GW5BTF30K00	Warm white	3,000	0.435	0.403	375	83		87	57
GW5BTF35K00	Natural white	3,500	0.409	0.393	390	83		87	60
GW5BTF40KH0	Natural white	4,000	0.376	0.371	390	83		87	60
GW5BTF50K00	Pure white	5,000	0.346	0.360	410	83		87	63
GW5BTF65K00	Cool white	6,500	0.313	0.332	410	83		87	63

SHARP

Subject to alterations and modifications.
For comprehensive product information please refer to the product specifications.

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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.