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## HIGH POWER MULTI CHIP LEDs, TO PACKAGE

**TO-66 high power array, with flat glass window and guard ring**60 chips array inside (5 x 12 chips on a 50 mm<sup>2</sup> footprint)

Wavelengths: 365 nm - 435 nm and white, others on request

Lens and heat sink available



| Part No.         | Wavelength | Output Power | Current | Voltage | φ    | Note | Data sheet |
|------------------|------------|--------------|---------|---------|------|------|------------|
| LED365-66-60-110 | 365 nm     | 130 mW       | 240 mA  |         |      |      |            |
| LED375-66-60-110 | 375 nm     | 150 mW       | 200 mA  |         |      |      |            |
| LED385-66-60-110 | 385 nm     | 150 mW       | 240 mA  |         |      |      |            |
| LED395-66-60-110 | 395 nm     | 240 mW       | 240 mA  |         |      |      |            |
| LED405-66-60-110 | 405 nm     | 300 mW       | 400 mA  |         |      |      |            |
| LED415-66-60-110 | 415 nm     | 300 mW       | 240 mA  |         |      |      |            |
| LED420-66-60-110 | 420 nm     | 550 mW       | 400 mA  |         | ±55° |      |            |
| LED430-66-60-110 | 430 nm     | 550 mW       | 400 mA  |         |      |      | request    |
| LED435-66-60-110 | 435 nm     |              |         |         |      |      | request    |

**TO-66 high power array, with silicone/epoxy resin**60 chips array inside (5 x 12 chips on a 50 mm<sup>2</sup> footprint)

Wavelengths: 365 nm - 1550 nm, others on request

Lens and heat sink available



| Part No.     | Wavelength | Output Power | Current | Voltage | φ    | Note           | Data sheet |
|--------------|------------|--------------|---------|---------|------|----------------|------------|
| LED365-66-60 | 365 nm     | 80 mW        | 200 mA  |         | ±55° | silicone resin | request    |
| LED375-66-60 | 375 nm     | 150 mW       | 200 mA  |         |      | silicone resin | request    |
| LED385-66-60 | 385 nm     | 150 mW       | 240 mA  |         |      | silicone resin | request    |
| LED395-66-60 | 395 nm     | 670 mW       | 240 mA  |         | 124° | silicone resin |            |
| LED405-66-60 | 405 nm     | 310 mW       | 240 mA  |         |      |                |            |
| LED420-66-60 | 420 nm     | 550 mW       | 400 mA  |         |      |                | request    |
| LED430-66-60 | 430 nm     | 690 mW       | 240 mA  | 15 V    | ±61° |                |            |
| LED435-66-60 | 435 nm     | 550 mW       | 400 mA  |         |      |                |            |
| LED450-66-60 | 450 nm     | 700 mW       | 240 mA  |         |      |                |            |
| LED470-66-60 | 470 nm     | 120 mW       | 240 mA  |         |      |                |            |
| LED505-66-60 | 505 nm     | 60 mW        | 240 mA  |         |      |                |            |
| LED525-66-60 | 525 nm     | 400 mW       | 240 mA  |         | ±61° |                |            |
| LED545-66-60 | 545 nm     | 140 mW       | 240 mA  |         |      |                |            |
| LED565-66-60 | 565 nm     | 8 mW         | 240 mA  |         |      |                |            |
| LED570-66-60 | 570 nm     | 36 mW        | 240 mA  |         |      |                |            |
| LED590-66-60 | 590 nm     | 170 mW       | 240 mA  |         | ±64° |                | request    |
| LED620-66-60 | 620 nm     | 120 mW       | 240 mA  |         |      |                |            |

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|                |         |        |        |       |      |  |                                                                                       |
|----------------|---------|--------|--------|-------|------|--|---------------------------------------------------------------------------------------|
| LED630-66-60   | 630 nm  | 140 mW | 240 mA |       |      |  |     |
| LED645-66-60   | 645 nm  | 120 mW | 240 mA |       |      |  |    |
| LED660-66-60   | 660 nm  | 180 mW | 240 mA |       |      |  |    |
| LED660N-66-60  | 660 nm  | 2.4 W  | 1.2 A  |       |      |  |    |
| LED670-66-60   | 670 nm  | 450 mW | 240 mA |       |      |  |    |
| LED680-66-60   | 680 nm  | 300 mW | 240 mA |       |      |  |    |
| LED690-66-60   | 690 nm  | 300 mW | 240 mA |       |      |  |    |
| LED700-66-60   | 700 nm  | 300 mW | 240 mA |       |      |  |    |
| LED720-66-60   | 720 nm  | 550 mW | 600 mA |       |      |  |    |
| LED735-66-60   | 735 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED740-66-60   | 740 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED750-66-60   | 750 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED760-66-60   | 760 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED780-66-60   | 780 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED790-66-60   | 790 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED810-66-60   | 810 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED830-66-60   | 830 nm  | 1.0 W  | 600 mA |       |      |  |    |
| LED840-66-60   | 840 nm  |        |        |       |      |  | request                                                                               |
| LED850-66-60   | 850 nm  | 1.5 W  | 800 mA |       |      |  |    |
| LED870-66-60   | 870 nm  | 1.5 W  | 800 mA |       |      |  |    |
| LED880-66-60   | 880 nm  | 1.5 W  | 800 mA |       |      |  |    |
| LED890-66-60   | 890 nm  | 850 mW | 800 mA |       |      |  |    |
| LED910-66-60   | 910 nm  | 600 mW | 800 mA |       |      |  |    |
| LED940-66-60   | 940 nm  | 550 mW | 600 mA | 6.5 V | 130° |  |  |
| LED950-66-60   | 950 nm  | 550 mW | 600 mA | 6.5 V | 130° |  | request                                                                               |
| LED970-66-60   | 970 nm  | 500 mW | 800 mA |       |      |  |  |
| LED980-66-60   | 980 nm  | 150 mW | 600 mA |       |      |  |  |
| LED990-66-60   | 990 nm  | 100 mW | 600 mA | 6.5 V |      |  | request                                                                               |
| LED1050-66-60  | 1050 nm | 80 mW  | 600 mA | 5.7 V | 130° |  |  |
| LED1070-66-60  | 1070 nm | 60 mW  | 600 mA |       |      |  |  |
| LED1200S-66-60 | 1200 nm | 140 mW | 600 mA | 4.6 V | 134° |  |  |
| LED1300S-66-60 | 1300 nm | 120 mW | 600 mA | 4.9 V | 128° |  |  |
| LED1450S-66-60 | 1450 nm | 70 mW  | 600 mA | 4.6 V | 128° |  |  |
| LED1550-66-60  | 1550 nm | 40 mW  | 600 mA |       |      |  |  |
| LED1650S-66-60 | 1650 nm | 34 mW  | 600 mA | 4.6 V | 130° |  | request                                                                               |

## High power LED array, TO-66 package, containing 12 power LED chips

4 x 3 LED matrix

Wavelength: white, others on request

Lens and heat sink available



| Part No.        | Wavelength | Output Power | Current | Voltage | φ    | Note | Data sheet |
|-----------------|------------|--------------|---------|---------|------|------|------------|
| LED47W-66-12100 | white      |              |         |         | ±60° |      | request    |

## High power LED array, TO-66 package, containing 16 power LED chips

Flat glass window and guard ring, 4 x 4 LED matrix

Wavelength: 360 nm - 415 nm, others on request

Lens and heat sink available

| Part No. | Wavelength | Output Power | Current | Voltage | φ | Note | Data sheet |
|----------|------------|--------------|---------|---------|---|------|------------|
|----------|------------|--------------|---------|---------|---|------|------------|



|                             |        |       |     |      |      |         |
|-----------------------------|--------|-------|-----|------|------|---------|
| <b>LED365V-66-16100-100</b> | 365 nm | 5.3 W | 2 A | 14 V | ±52° | request |
| <b>LED375V-66-16100-100</b> | 365 nm | 4.6 W | 2 A | 14 V | ±52° | request |
| <b>LED385V-66-16100-100</b> | 385 nm | 5 W   | 2 A | 14 V | ±52° | request |
| <b>LED395V-66-16100-110</b> | 395 nm | 6.6 W | 2 A | 14 V | ±53° | request |
| <b>LED405V-66-16100-110</b> | 405 nm | 1.5 W | 1 A |      | ±60° | request |

## High power LED array, TO-66 package, containing 16 power LED chips

Silicone/epoxy resin, 4 x 4 LED matrix

Wavelength: 385 nm - 950 nm, others on request

Lens and heat sink available



| Part No.                | Wavelength | Output Power | Current | Voltage | φ    | Note           | Data sheet                                                                            |
|-------------------------|------------|--------------|---------|---------|------|----------------|---------------------------------------------------------------------------------------|
| <b>LED47W-66-16100</b>  | white      | 80 lm        | 1.2 A   | 13 V    | ±60° | silicone resin |    |
| <b>LED385-66-16100</b>  | 385 nm     |              |         |         |      |                | request                                                                               |
| <b>LED415-66-16100</b>  | 415 nm     |              |         |         |      |                | request                                                                               |
| <b>LED470V-66-16100</b> | 470 nm     | 8.0 W        | 2.0 A   | 12.8 V  | ±62° |                |    |
| <b>LED660N-66-16100</b> | 660 nm     | 4.8 W        | 1.4 A   | 8.8 V   | ±62° |                |   |
| <b>LED680-66-16100</b>  | 680 nm     | 450 mW       | 1.4 A   | 7.7 V   | ±60° |                |  |
| <b>LED690D-66-16100</b> | 690 nm     | 5.9 W        | 2.4 A   | 10 V    | ±62° |                | request                                                                               |
| <b>LED720-66-16100</b>  | 720 nm     | 550 mW       | 1.4 A   | 7.4 V   | ±60° |                |  |
| <b>LED730-66-16100</b>  | 730 nm     | 600 mW       | 1.4 A   | 7.4 V   | ±60° |                |  |
| <b>LED735-66-16100</b>  | 735 nm     |              |         |         |      |                | request                                                                               |
| <b>LED740-66-16100</b>  | 740 nm     | 450 mW       | 1.4 A   | 5.5 V   | ±60° |                |  |
| <b>LED760D-66-16100</b> | 760 nm     | 5.7 W        | 3.2 A   | 8.6 V   | ±64° |                | request                                                                               |
| <b>LED780-66-16100</b>  | 780 nm     | 2.8 W        | 3.2 A   | 8.0 V   |      |                |  |
| <b>LED780D-66-16100</b> | 780 nm     | 5.6 W        | 3.2 A   | 8.7 V   | ±64° |                | request                                                                               |
| <b>LED790-66-16100</b>  | 790 nm     |              |         |         |      |                | request                                                                               |
| <b>LED810-66-16100</b>  | 810 nm     | 900 mW       | 1.4 A   | 6.8 V   | ±60° |                | request                                                                               |
| <b>LED840-66-16100</b>  | 840 nm     |              |         |         |      |                | request                                                                               |
| <b>LED850D-66-16100</b> | 850 nm     | 8.0 W        | 4.0 A   | 8.4 V   | 126° |                |  |
| <b>LED870-66-16100</b>  | 870 nm     |              |         |         |      |                | request                                                                               |
| <b>LED920-66-16100</b>  | 920 nm     | 650 mW       | 2.0 A   | 5.5 V   | ±60° |                |  |
| <b>LED940-66-16100</b>  | 940 nm     | 1000 mW      | 2.4 A   |         | ±60° |                | request                                                                               |
| <b>LED950-66-16100</b>  | 950 nm     | 750 mW       | 2.0 A   | 5.5 V   | ±60° |                |  |
| <b>LED1050-66-16100</b> | 1050 nm    | 150 mW       | 2.0 A   | 4.8 V   | ±68° |                | request                                                                               |
| <b>LED1200-66-16100</b> | 1200 nm    | 200 mW       | 2.0 A   | 4.4 V   | ±69° |                | request                                                                               |
| <b>LED1300-66-16100</b> | 1300 nm    | 180 mW       | 2.0 A   | 4.1 V   | ±69° |                | request                                                                               |
| <b>LED1450-66-16100</b> | 1450 nm    | 95 mW        | 2.0 A   | 4.1 V   | ±67° |                | request                                                                               |

## High power LED array, TO-3 package, containing 4 power LED chips

Epoxy resin, 2 x 2 LED matrix

Wavelength: 385 nm - 940 nm

-> PHASE OUT



| Part No.       | Wavelength | Output Power | Current | Voltage | $\phi$         | Note | Data sheet                                                                            |
|----------------|------------|--------------|---------|---------|----------------|------|---------------------------------------------------------------------------------------|
| TO3A4-HW-180   | white      | 70 cd        | 1.4 A   | 4.1 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H390-180 | 382-390 nm | 200 mW       | 1.4 A   | 4.1 V   | $\pm 90^\circ$ |      |    |
| TO3A4-HU-180   | 395-405 nm | 65 mW        | 1.4 A   | 4.5 V   | $\pm 90^\circ$ |      |    |
| TO3A4-HB-180   | 470 nm     | 90 mW        | 1.4 A   | 4.4 V   | $\pm 90^\circ$ |      |    |
| TO3A4-HY-180   | 590 nm     | 160 mW       | 1.4 A   | 2.6 V   | $\pm 90^\circ$ |      |    |
| TO3A4-HR-180   | 630 nm     | 110 mW       | 1.4 A   | 2.5 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H650-180 | 650 nm     | 130 mW       | 1.4 A   | 2.5 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H660-180 | 660 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H670-180 | 670 nm     | 200 mW       | 1.4 A   | 2.5 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H680-180 | 680 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H690-180 | 690 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H720-180 | 720 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H740-180 | 740 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H760-180 | 760 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H770-180 | 770 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H780-180 | 780 nm     | 270 mW       | 1.4 A   | 2.2 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H810-180 | 810 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H820-180 | 820 nm     | 260 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |    |
| TO3A4-H880-180 | 880 nm     | 200 mW       | 1.2 A   | 1.9 V   | $\pm 90^\circ$ |      |  |
| TO3A4-H890-180 | 890 nm     | 200 mW       | 1.4 A   | 1.9 V   | $\pm 90^\circ$ |      |  |
| TO3A4-H905-180 | 905 nm     | 150 mW       | 1.2 A   | 1.7 V   | $\pm 90^\circ$ |      |  |
| TO3A4-H940-180 | 940 nm     | 150 mW       | 1.2 A   | 1.7 V   | $\pm 90^\circ$ |      |  |

MOQ: 1 piece

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