

MACRON INTERNATIONAL GROUP LIMITED

MACRON PHOTORESISTOR FACTORY (SHENZHEN)

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PHOTORESISTOR SPECIFICATION

MODEL NO.	DIMENSION	VOLTAGE APPLIED	POWER DISSIPATION	AMBIENT TEMPERATURE	LIGHT RESISTANCE	LIGHT RESISTANCE	DARK RESISTANCE	$100 \gamma_{10}$	PEAK SENSITIVITY WAVELENGTH	TEMP COEFFICIENT	RISE RESPONSE TIME	FAIL RESPONSE TIME
MI	mm	VCD	(MW)	°C	10 Lux (K Ω)	100Lux(K Ω)	(M Ω)		(nm)	10 ⁻² / °C	t _r (ms)	t _f (ms)
MI 4406	4	150	90	-30 ~ +70	4 - 6	≤ 1	0.5	0.6	560	± 0.2	30	40
MI 4416	4	150	90	-30 ~ +70	5 - 10	1 - 2	1.0	0.6	560	± 0.2	30	40
MI 4427	4	150	100	-30 ~ +70	10 - 20	2 - 4	2.0	0.7	560	± 0.2	30	30
MI 4437	4	150	100	-30 ~ +70	20 - 30	4 - 6	5.0	0.7	560	± 0.2	20	30
MI 4447	4	150	100	-30 ~ +70	30 - 50	6 - 10	10.0	0.8	560	± 0.2	20	30
MI 4448	4	150	100	-30 ~ +70	50 - 100	10 - 20	20.0	0.8	560	± 0.2	20	30
MI 4458	4	150	100	-30 ~ +70	100 - 200	20 - 35	20.0	0.8	560	± 0.2	20	30
MI 5506	5	100	90	-30 ~ +70	4 - 6	≤ 1	0.2	0.6	540	± 0.2	30	40
MI 5516	5	100	90	-30 ~ +70	5 - 10	1 - 2	0.5	0.6	540	± 0.2	30	40
MI 5527	5	150	100	-30 ~ +70	10 - 20	2 - 4	1.0	0.7	540	± 0.2	20	30
MI 5537	5	150	100	-30 ~ +70	20 - 30	4 - 6	2.0	0.7	540	± 0.2	20	30
MI 5547	5	150	100	-30 ~ +70	30 - 50	6 - 10	5.0	0.7	540	± 0.2	20	30
MI 5548	5	150	100	-30 ~ +70	50 - 100	10 - 20	10.0	0.8	540	± 0.2	20	30
MI 5558	5	150	100	-30 ~ +70	100 - 200	20 - 35	20.0	0.8	560	± 0.2	20	30
MI 7516	7	150	100	-30 ~ +70	4 - 10		0.5	0.6	540	± 0.2	30	30
MI 7528	7	150	150	-30 ~ +70	8 - 20		2.0	0.7	540	± 0.2	30	30
MI 7538	7	150	150	-30 ~ +70	18 - 50		5.0	0.8	560	± 0.2	30	30
MI 7649	7	150	150	-30 ~ +70	45 - 140		10.0	0.8	560	± 0.2	30	30
MI 9516	9	150	150	-30 ~ +70	5-10		≥0.5	0.6	540	± 0.2	30	30
MI 9526	9	150	150	-30 ~ +70	8-20		≥1.0	0.6	540	± 0.2	30	30
MI 9637	9	150	150	-30 ~ +70	16-40		≥2.0	0.7	560	± 0.2	30	30
MI 9647	9	150	150	-30 ~ +70	30-60		≥5.0	0.7	560	± 0.2	30	30
MI 9558	9	150	150	-30 ~ +70	50-100		≥10.0	0.8	560	± 0.2	20	30
MI 9569	9	150	150	-30 ~ +70	80-140		≥20.0	0.9	560	± 0.2	20	30
MI 12528	12	250	200	-30 ~ +70	8-20		≥2.0	0.6	560	± 0.2	30	30
MI 12537	12	250	200	-30 ~ +70	18-50		≥5.0	0.7	560	± 0.2	30	30
MI 12549	12	250	200	-30 ~ +70	45-140		≥10.0	0.8	560	± 0.2	30	30
MI 20528	20	500	500	-30 ~ +70	8-20		≥2.0	0.6	560	± 0.2	30	30
MI 20537	20	500	500	-30 ~ +70	18-50		≥5.0	0.7	560	± 0.2	30	30
MI 20549	20	500	500	-30 ~ +70	45-140		≥10.0	0.8	560	± 0.2	30	30

SERIES	A	B	C	D	E	F	G
MI 44 series Φ 4	4.3 ± 0.1	3.6 ± 0.1	2.5 ± 0.05	36 ± 2	1.8 ± 0.1	0.4 ± 0.05	0.2 ± 0.05
MI 55 series Φ 5	5.1 ± 0.2	4.3 ± 0.2	3.4 ± 0.1	36 ± 2	1.8 ± 0.1	0.5 ± 0.05	0.2 ± 0.1
MI 77 series Φ 7	7.1 ± 0.2	5.8 ± 0.2	5 ± 0.1	36 ± 2	1.8 ± 1.5	0.5 ± 0.05	0.2 ± 0.1

TEST TERMS AND SPECIFICATIONS

- Luminance Resistance: After 2 hours' exposure under illumination 400-600Lux, then to test with 10Lux and 100Lux und standard illuminant A(chroma temperature 2854K)
- Dark Resistance: Resistance value when the light is turned off for ten seconds.(0Lux)
- γ represents the standard value under both 10Lux and 100Lux: $\gamma = \log(R_0/R_{100})/\log(100/10)$
- The max loss.Φ 7 the max power loss: When the condition temperature is 25 °C.
The max. power loss is 250MW. The other parametr is listed as the chart below.
- The max. adscition voltage: The max. valtage which can be added to the component continuously.

