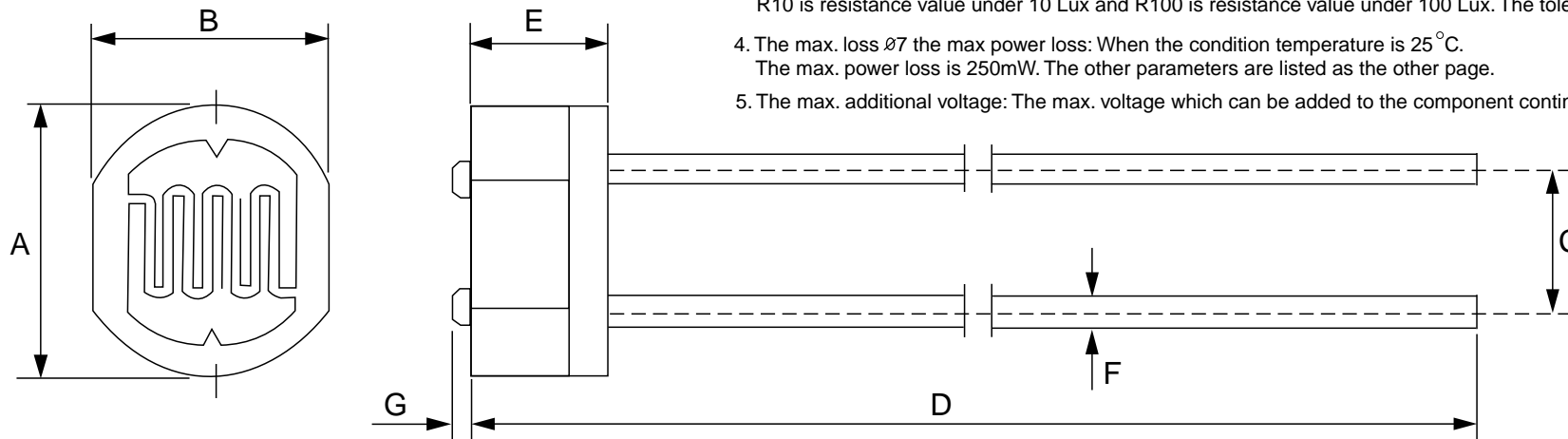


# MEC

## TEST TERMS AND DIMENSIONS

1. Luminance Resistance: After 2 hours exposure under illumination 400–600 Lux, then to test with 10 Lux and 100 Lux under standard illuminant A (chroma temperature 2854K).
2. Dark Resistance: Resistance value when the light is turned off for ten seconds. (0 Lux)
3.  $\gamma$  Represents the standard value under both 10 Lux and 100 Lux :  $\gamma = \log(R10/R100) / \log(100/10) = \log\left(\frac{R10}{R100}\right)$   
R10 is resistance value under 10 Lux and R100 is resistance value under 100 Lux. The tolerance for  $\gamma$  is  $\pm 0.1$ .
4. The max. loss  $\varnothing 7$  the max power loss: When the condition temperature is 25°C.  
The max. power loss is 250mW. The other parameters are listed as the other page.
5. The max. additional voltage: The max. voltage which can be added to the component continuously.



SERIES	A	B	C	D	E	F	G
MLG 44 Series $\varnothing 4$	4.3 $\pm$ 0.1	3.6 $\pm$ 0.1	2.5 $\pm$ 0.05	36 $\pm$ 2	1.8 $\pm$ 0.1	0.4 $\pm$ 0.05	0.2 $\pm$ 0.05
MLG 55 Series $\varnothing 5$	5.1 $\pm$ 0.2	4.3 $\pm$ 0.2	3.4 $\pm$ 0.1	36 $\pm$ 2	1.8 $\pm$ 0.1	0.5 $\pm$ 0.05	0.2 $\pm$ 0.1
MLG 75 Series $\varnothing 7$	7.1 $\pm$ 0.2	5.8 $\pm$ 0.2	5.0 $\pm$ 0.1	36 $\pm$ 2	1.8 $\pm$ 0.1	0.5 $\pm$ 0.05	0.2 $\pm$ 0.1
MLG 12 Series $\varnothing 12$	11.8 $\pm$ 0.2	10.6 $\pm$ 0.2	9.0 $\pm$ 0.1	36 $\pm$ 2	1.8 $\pm$ 0.1	0.5 $\pm$ 0.05	0.2 $\pm$ 0.05

# MEC

## CdS (PHOTO RESISTOR) SPECIFICATIONS

## SELECTION GUIDE

MODEL NO.	DIMENSION	VOLTAGE APPLIED	POWER DISSIPATION	AMBIENT TEMPERATURE	LIGHT RESISTANCE		DARK RESISTANCE	$\gamma$ 100 10	PEAK SENSITIVITY WAVELENGTH	RISE RESPONSE TIME	FALL RESPONSE TIME
	mm	V <sub>dc</sub> max.	mW max.	°C	10 Lux (k $\Omega$ )	100 Lux (k $\Omega$ )	(M $\Omega$ )		(nm)	t <sub>r</sub> (ms)	t <sub>f</sub> (ms)
MLG 4406	4	150	90	-30 ~ +70	4 - 6	$\leq 1$	0.5	0.6	560	30	40
MLG 4416	4	150	90	-30 ~ +70	5 - 10	1 - 2	1.0	0.6	560	30	40
MLG 4427	4	150	100	-30 ~ +70	10 - 20	2 - 4	2.0	0.7	560	30	30
MLG 4437	4	150	100	-30 ~ +70	20 - 30	4 - 6	5.0	0.7	560	20	30
MLG 4447	4	150	100	-30 ~ +70	30 - 50	6 - 10	10.0	0.8	560	20	30
MLG 4448	4	150	100	-30 ~ +70	50 - 100	10 - 20	20.0	0.8	560	20	30
MLG 4458	4	150	100	-30 ~ +70	100 - 200	20 - 35	20.0	0.8	560	20	30
MLG 5506	5	100	90	-30 ~ +70	4 - 6	$\leq 1$	0.2	0.6	540	30	40
MLG 5516	5	100	90	-30 ~ +70	5 - 10	1 - 2	0.5	0.6	540	30	40
MLG 5527	5	150	100	-30 ~ +70	10 - 20	2 - 4	1.0	0.7	540	20	30
MLG 5527A	5	150	100	-30 ~ +70	10 - 15	-	2.0	0.7	540	20	30
MLG 5527T	5	150	100	-30 ~ +70	10 - 20	2.3 - 4.5	-	0.65	560	20	30
MLG 5537	5	150	100	-30 ~ +70	20 - 30	4 - 6	2.0	0.7	540	20	30
MLG 5537A	5	150	100	-30 ~ +70	20 - 25	-	5.0	0.7	540	20	30
MLG 5537B	5	150	100	-30 ~ +70	25 - 30	-	5.0	0.7	540	20	30
MLG 5547	5	150	100	-30 ~ +70	30 - 50	6 - 10	5.0	0.7	540	20	30
MLG 5547AA	5	150	100	-30 ~ +70	30 - 35	-	5.0	0.7	540	20	30
MLG 5548	5	150	100	-30 ~ +70	50 - 100	10 - 20	20.0	0.8	540	20	30
MLG 5558	5	150	100	-30 ~ +70	100 - 200	20 - 35	20.0	0.8	560	20	30
MLG 5558X	5	150	100	-30 ~ +70	150 - 300	-	30.0	0.8	560	20	30
MLG 5569	5	150	100	-30 ~ +70	600 - 1000	-	20.0	0.9	560	20	30

# MEC

## CdS (PHOTO RESISTOR) SPECIFICATIONS

## SELECTION GUIDE

MODEL NO.	DIMENSION	VOLTAGE APPLIED	POWER DISSIPATION	AMBIENT TEMPERATURE	LIGHT RESISTANCE		DARK RESISTANCE	$\gamma_{\frac{100}{10}}$	PEAK SENSITIVITY WAVELENGTH	RISE RESPONSE TIME	FALL RESPONSE TIME
	mm	Vdc max.	mW max.	°C	10 Lux (k $\Omega$ )	100 Lux (k $\Omega$ )	(M $\Omega$ )		(nm)	t <sub>r</sub> (ms)	t <sub>f</sub> (ms)
MLG 7506	7	150	150	-30 ~ +70	4 - 6	$\leq 1$	0.2	0.6	560	20	30
MLG 7516	7	150	150	-30 ~ +70	5 - 10	1 - 2	0.5	0.6	560	20	30
MLG 7527	7	150	150	-30 ~ +70	10 - 20	2 - 4	1.0	0.7	560	20	30
MLG 7537	7	150	150	-30 ~ +70	20 - 30	4 - 6	3.0	0.7	560	20	30
MLG 7547	7	150	150	-30 ~ +70	30 - 50	6 - 10	5.0	0.7	560	20	30
MLG 7548	7	150	150	-30 ~ +70	50 - 100	10 - 20	10.0	0.8	560	20	30
MLG 7558	7	150	150	-30 ~ +70	100 - 200	20 - 35	20.0	0.8	560	20	30
MLG 12506	12	150	200	-30 ~ +70	4 - 6	$\leq 1$	0.2	0.6	560	20	30
MLG 12516	12	150	200	-30 ~ +70	5 - 10	1 - 2	0.5	0.6	560	20	30
MLG 12527	12	150	200	-30 ~ +70	10 - 20	2 - 4	1.0	0.7	560	20	30
MLG 12537	12	150	200	-30 ~ +70	20 - 30	-	3.0	0.7	560	20	30
MLG 12547	12	150	200	-30 ~ +70	30 - 50	2.3 - 4.5	5.0	0.7	560	20	30
MLG 12548	12	150	200	-30 ~ +70	50 - 100	4 - 6	2.0	0.8	560	20	30
MLG 12558	12	150	200	-30 ~ +70	100 - 200	-	20	0.8	560	20	30