ChipLED Selection Guide

Mono-color

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0603 ChipLEDs - 0.37mm height

Dimensions (mm): 1.6 x 0.6 x 0.37 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (typ.)	Iv @ 20mA (typ)
HSMW-C130	white	x 0.29/y 0.27	InGaN	145°	3.6V	150mcd
HSMR-C130	blue	473nm	InGaN	145°	3.4V	55mcd
HSMQ-C130	green	527nm	InGaN	120°	2.5V-3.5V	285mcd-715mcd
HSME-C130	yell-green	573nm	AlInGaP	110°	1.94V	54mcd
HSMA-C130	amber	589nm	AlInGaP	110°	2.05V	87mcd
HSML-C130	orange	606nm	AlInGaP	110°	1.94V	139mcd
HSMC-C130	red	626nm	AlInGaP	110°	1.94V	131mcd

0603 ChipLEDs - 0.8mm height

Dimensions (mm): 1.6 x 0.8 x 0.8 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (typ)
HSMR-C190	blue	473nm	InGaN	140°	3.4V-3.9V	55mcd
HSMQ-C190	green	527nm	InGaN	140°	3.4V-3.9V	145mcd
HSMG-C190	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	15mcd
HSME-C190	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	50mcd
HSMA-C190	amber	592nm	AlInGaP	170°	1.9V-2.4V	90mcd
HSMY-C190	amber	592nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSML-C190	orange	605nm	AlInGaP	170°	1.9V-2.4V	90mcd
HSMD-C190	orange	604nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMC-C190	red	626nm	AlInGaP	170°	1.6V-2.4V	90mcd
HSMH-H190	red	639nm	AlInGaP	170°	1.6V-2.6V	7.2mcd (min)

0402 ChipLEDs - 0.25mm height

Dimensions (mm): 1.0 x 0.5 x 0.25 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (typ)
HSME-C290	yell-green	572nm	AlInGaP	135°	1.6V-2.4V	63mcd
HSMA-C290	amber	589nm	AlInGaP	135°	1.6V-2.4V	79mcd
HSML-C290	orange	605nm	AlInGaP	135°	1.6V-2.4V	89mcd
HSMC-C290	red	624nm	AlInGaP	135°	1.6V-2.4V	97mcd

0603 Lens ChipLEDs - 0.98mm height

Dimensions (mm): 1.6 x 0.6 x 0.37 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (typ.)	Iv @ 20mA (min-max)
HSMR-C320	blue	473nm	InGaN	50°	2.5V-3.5V	200mcd-1125mcd
HSMQ-C320	green	527nm	InGaN	50°	2.5V-3.5V	1125mcd-4500mcd
HSME-C320	yell-green	572nm	AlInGaP	60°	1.6V-2.4V	180mcd-450mcd
HSMA-C320	amber	592nm	AlInGaP	60°	1.6V-2.4V	285mcd-715mcd
HSML-C320	orange	605nm	AlInGaP	60°	1.6V-2.4V	285mcd-715mcd
HSMC-C320	red	626nm	AlInGaP	60°	1.6V-2.4V	450mcd-1125mcd

1206 Lens ChipLEDs - 1.85mm height

Dimensions (mm): 3.2 x 1.6 x 1.85 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (min-max)
HSMQ-C380	green	528nm	InGaN	15°	2.9V-3.9V	1800mcd-7150mcd
HSME-C380	yell-green	570nm	AlInGaP	15°	1.6V-2.4V	285mcd-4500mcd
HSMA-C380	amber	589nm	AlInGaP	15°	1.6V-2.4V	715mcd-4500mcd
HSML-C380	orange	603nm	AlInGaP	15°	1.6V-2.4V	450mcd-4500mcd
HSMC-C380	red	630nm	AlInGaP	15°	1.6V-2.4V	450mcd-4500mcd

1206 Lens ChipLEDs - 1.85mm height

Dimensions (mm): 3.2 x 1.6 x 1.85 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (min-max)
HSMQ-C380	green	528nm	InGaN	15°	2.9V-3.9V	1800mcd-7150mcd
HSME-C380	yell-green	570nm	AlInGaP	15°	1.6V-2.4V	285mcd-4500mcd
HSMA-C380	amber	589nm	AlInGaP	15°	1.6V-2.4V	715mcd-4500mcd
HSML-C380	orange	603nm	AlInGaP	15°	1.6V-2.4V	450mcd-4500mcd
HSMC-C380	red	630nm	AlInGaP	15°	1.6V-2.4V	450mcd-4500mcd

Right angle ChipLEDs - 0.3mm height

Dimensions (mm): 1.0 x 0.55 x 0.3 **Test current: 20mA, 5mA (W&B)** **Type: Side Firing**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min)
HSMW-C230	white	x 0.29/y 0.28	InGaN	175°	2.55V-3.15V	45mcd @ 5mA
HSMR-C230	blue	468nm	InGaN	175°	2.55V-3.15V	18mcd @ 5mA
HSMQ-C230	green	523nm	InGaN	140°	2.9V-3.9V	112.5mcd @ 20mA
HSME-C230	yell-green	572nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @ 20mA
HSMA-C230	amber	589nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @ 20mA
HSML-C230	orange	605nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @ 20mA
HSMC-C230	red	622nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @ 20mA

0603 ChipLEDs - 0.6mm height

Dimensions (mm): 1.6 x 0.8 x 0.6 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (typ)
HSMW-C191	white	x 0.29/y 0.27	InGaN	140°	3.4V-3.9V	200mcd
HSMR-C191	blue	473nm	InGaN	140°	3.4V-3.9V	55mcd
HSMQ-C191	green	527nm	InGaN	140°	3.4V-3.9V	145mcd
HSMG-C191	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	15mcd
HSME-C191	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	50mcd
HSMA-C191	amber	592nm	AlInGaP	170°	1.9V-2.4V	90mcd
HSMY-C191	amber	592nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSML-C191	orange	605nm	AlInGaP	170°	1.9V-2.4V	90mcd
HSMD-C191	orange	604nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMC-C191	red	626nm	AlInGaP	170°	1.6V-2.4V	90mcd
HSMH-H191	red	639nm	AlInGaP	170°	1.6V-2.6V	7.2mcd (min)

Right angle ChipLEDs - 0.6mm height

Dimensions (mm): 2.1 x 1.0 x 0.6 **Test current: 20mA** **Type: Side Firing**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (min)
HSMW-C240	white	x 0.29/y 0.28	InGaN	175°	2.55V-3.15V	45mcd
HSME-C240	yell-green	572nm	AlInGaP	120°	1.6V-2.4V	45mcd
HSMA-C240	amber	592nm	AlInGaP	120°	1.6V-2.4V	45mcd
HSML-C240	orange	605nm	AlInGaP	120°	1.6V-2.4V	45mcd
HSMC-C240	red	626nm	AlInGaP	120°	1.6V-2.4V	45mcd

0805 ChipLEDs - 0.8mm height

Dimensions (mm): 2.0 x 1.25 x 0.8 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (typ)
HSMR-C170	blue	473nm	InGaN	140°	3.4V-3.9V	55mcd
HSMQ-C170	green	527nm	InGaN	140°	3.4V-3.9V	145mcd
HSME-C170	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	50mcd
HSMG-C170	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	15mcd
HSMA-C170	amber	586nm	AlInGaP	170°	1.6V-2.6V	90mcd
HSMY-C170	amber	586nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSML-C170	orange	604nm	AlInGaP	170°	1.6V-2.6V	90mcd
HSMD-C170	orange	604nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMC-C170	red	626nm	AlInGaP	170°	1.6V-2.4V	90mcd
HSMH-H170	red	639nm	AlInGaP	170°	1.6V-2.6V	7.2mcd (min)

1206 ChipLEDs - 1.10mm height

Dimensions (mm): 3.2 x 1.6 x 1.1 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (typ)
HSMR-C150	blue	473nm	InGaN	140°	3.4V-3.9V	55mcd
HSMQ-C150	green	527nm	InGaN	140°	3.4V-3.9V	145mcd
HSME-C150	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	50mcd
HSMG-C150	yell-green	572nm	AlInGaP	170°	1.6V-2.6V	15mcd
HSMY-C150	amber	586nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMD-C150	orange	604nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMD-C170	orange	604nm	AlInGaP	170°	1.6V-2.6V	8mcd
HSMC-C150	red	626nm	AlInGaP	170°	1.6V-2.4V	90mcd
HSMS-H150	red	626nm	AlInGaP	170°	1.6V-2.6V	10mcd
HSMH-H150	red	639nm	AlInGaP	170°	1.6V-2.6V	7.2mcd (min)

ChipLED Selection Guide

Bi-color

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0603 Bi-Color ChipLEDs - 0.5mm height

Dimensions (mm): 1.6 x 0.8 x 0.5 **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (typ-max)	Iv (typ) or (min-max)
HSMF-C162	AlInGaP amber	592nm	AlInGaP	120°	1.8V-2.3V	90mcd @20mA
	AlInGaP red	626nm	AlInGaP	120°	1.8V-2.3V	90mcd @20mA
HSMF-C163	AlInGaP red	626nm	AlInGaP	120°	1.8V-2.3V	90mcd @20mA
	InGaN green	525nm	InGaN	120°	3.4V-3.8V	45mcd @10mA
HSMF-C164	AlInGaP red	626nm	AlInGaP	120°	1.8V-2.3V	90mcd @20mA
	InGaN blue	470nm	InGaN	120°	3.4V-3.8V	10mcd @10mA
HSMF-C165	GaP red	621nm	GaP	120°	1.95V-2.6V	10mcd @20mA
	GaP green	572nm	GaP	120°	2.2V-2.6V	15mcd @20mA
HSMF-C166	GaP yellow	586nm	GaP	120°	2.1V-2.6V	8mcd @20mA
	GaP green	572nm	GaP	120°	2.2V-2.6V	15mcd @20mA
HSMF-C167	GaP Orange	604nm	GaP	120°	2.2V-2.6V	8mcd @20mA
	GaP green	572nm	GaP	120°	2.2V-2.6V	15mcd @20mA
HSMF-C168	InGaN green	525nm	InGaN	120°	3.4V-3.8V	45mcd @10mA
	InGaN blue	470nm	InGaN	120°	3.4V-3.8V	10mcd @10mA
HSMF-C169	AlInGaP amber	592nm	AlInGaP	120°	1.8V-2.3V	90mcd @20mA
	InGaN blue	470nm	InGaN	120°	3.4V-3.8V	10mcd @10mA
HSMF-C16B	AlInGaP orange	605nm	AlInGaP	120°	1.6V-2.24V	11.2mcd-45mcd @ 5mA
	InGaN green	525nm	InGaN	120°	2.55V-3.15V	45mcd-112.5mcd @ 5mA
HSMF-C16M	AlInGaP red	626nm	AlInGaP	120°	1.6V-2.4V	104.4mcd @20mA
	AlInGaP green	572nm	AlInGaP	120°	1.6V-2.4V	55.4mcd @20mA
HSMF-C16Z	AlInGaP orange	605nm	AlInGaP	125°	1.6V-2.4V	18mcd-45mcd @5mA
	white		InGaN	125°	2.55V-3.15V	71.5mcd-180mcd @ 5mA
HSMF-C2A1	AlInGaP orange	605nm	AlInGaP	120°	1.6V-2.4V	45mcd-285mcd @20mA
	InGaN blue	470nm	InGaN	120°	2.9V-3.8V	28.5mcd-180mcd @20mA

0605 Bi-Color ChipLEDs - 0.4mm height

Dimensions (mm): 1.6 x 1.25 x 1.1 **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min)
HSMF-C171	AlInGaP Orange	605nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @10mA
	InGaN blue	467nm	InGaN	150°	2.7V-3.9V	18mcd @10mA
HSMF-C172	AlInGaP Orange	605nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
	AlInGaP green	570nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
HSMF-C173	AlInGaP red	624nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
	InGaN green	525nm	InGaN	150°	2.7V-3.9V	71.5mcd @20mA
HSMF-C174	AlInGaP red	624nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
	AlInGaP green	570nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
HSMF-C175	AlInGaP amber	589nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
	AlInGaP green	570nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @20mA
HSMF-C176	InGaN blue	467nm	InGaN	150°	2.7V-3.9V	18mcd @10mA
	InGaN green	525nm	InGaN	150°	2.7V-3.9V	71.5mcd @10mA
HSMF-C177	AlInGaP Orange	605nm	AlInGaP	140°	1.6V-2.4V	28.5mcd @10mA
	InGaN green	525nm	InGaN	150°	2.7V-3.9V	180mcd@10mA
HSMF-C178	AlInGaP amber	589nm	AlInGaP	150°	1.6V-2.4V	92mcd @20mA
	InGaN green	525nm	InGaN	140°	2.9V-3.9V	285mcd @20mA
HSMF-C179	AlInGaP red	626nm	AlInGaP	140°	1.6V-2.4V	45mcd @20mA
	InGaN blue	467nm	InGaN	140°	2.9V-3.9V	45mcd @20mA

0606 Bi-Color ChipLEDs - 0.55mm height

Dimensions (mm): 1.6 x 1.5 x 0.55 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min-max)
HSMF-C1A4	AlInGaP red	626nm	AlInGaP	130°	1.6V-2.4V	45mcd-112.5mcd @20mA
	InGaN green	527nm	InGaN	130°	2.9V-3.9V	112.5mcd-285mcd @20mA

1210 Bi-Color ChipLEDs - 1.1mm height

Dimensions (mm): 3.2 x 2.7 x 1.1 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (typ-max)	Iv (typ)
HSMF-C150	AlInGaP red	632nm	AlInGaP	170°	2.0V-2.4V	79mcd @20mA
	AlInGaP green	572nm	AlInGaP	170°	2.1V-2.4V	45mcd @20mA
HSMF-C153	GaP yellow	586nm	GaP	170°	2.1V-2.6V	8mcd @20mA
	GaP red	626nm	GaP	170°	2.1V-2.6V	10mcd @20mA
HSMF-C155	GaP red	626nm	GaP	170°	2.1V-2.6V	10mcd @20mA
	GaP green	572nm	GaP	170°	2.2V-2.6V	15mcd @20mA
HSMF-C156	GaP yellow	586nm	GaP	170°	2.1V-2.6V	8mcd @20mA
	GaP green	572nm	GaP	170°	2.2V-2.6V	15mcd @20mA
HSMF-C157	GaP Orange	604nm	GaP	170°	2.2V-2.6V	15mcd @20mA
	GaP green	572nm	GaP	170°	2.2V-2.6V	15mcd @20mA
HSMF-C158	AlInGaP green	572nm	AlInGaP	170°	2.1V-2.4V	45mcd @20mA
	AlInGaP amber	572nm	AlInGaP	170°	1.9V-2.4V	55mcd @20mA
HSMF-C15A	AlInGaP amber	592nm	AlInGaP	170°	1.9V-2.4V	55mcd @20mA
	AlInGaP red	632nm	AlInGaP	170°	2.0V-2.4V	79mcd @20mA

0606 Bi-Color ChipLEDs - 0.7mm height

Dimensions (mm): 1.6 x 1.5 x 0.7 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min-max)
HSMF-C180	GaP green	572nm	GaP	160°	1.6V-2.6V	4.5mcd-28.5mcd @20mA
	GaP yellow	588nm	GaP	160°	1.6V-2.6V	2.8mcd-18mcd @20mA
HSMF-C181	GaP green	572nm	GaP	170°	1.6V-2.6V	4.5mcd-28.5mcd @20mA
	GaP red	629nm	GaP	170°	1.6V-2.6V	2.8mcd-18mcd @20mA
HSMF-C182	AlInGaP green	572nm	AlInGaP	150°	1.6V-2.4V	28.5mcd-58.25mcd @20mA
	AlInGaP amber	592nm	AlInGaP	150°	1.6V-2.4V	36.75mcd-112.5mcd @20mA
HSMF-C183	AlInGaP green	572nm	AlInGaP	130°	1.6V-2.4V	23.2mcd-112.5mcd @20mA
	AlInGaP red	626nm	AlInGaP	130°	1.6V-2.4V	36.7mcd-180mcd @20mA
HSMF-C185	GaP green	572nm	GaP	160°	1.6V-2.6V	4.5mcd-28.5mcd @20mA
	AlInGaP red	626nm	AlInGaP	130°	1.6V-2.4V	71.5mcd-285mcd @20mA
HSMF-C186	AlInGaP red	626nm	AlInGaP	170°	1.6V-2.4V	18mcd-112.5mcd @20mA
	InGaN blue	473nm	InGaN	170°	2.9V-3.9V	18mcd-112.5mcd @20mA
HSMF-C187	AlInGaP green	572nm	AlInGaP	150°	1.6V-2.4V	18mcd-112.5mcd @20mA
	InGaN blue	473nm	InGaN	140°	2.9V-3.9V	28.5mcd-180mcd @20mA
HSMF-C188	AlInGaP amber	592nm	AlInGaP	150°	1.6V-2.4V	28.5mcd-180mcd @20mA
	InGaN green	525nm	InGaN	150°	2.9V-3.9V	45mcd-285mcd @20mA
HSMF-C189	AlInGaP amber	592nm	AlInGaP	140°	1.6V-2.4V	28.5mcd-180mcd @20mA
	InGaN blue	473nm	InGaN	140°	2.9V-3.9V	28.5mcd-180mcd @20mA

Right angle Bicolor ChipLEDs - 1.0mm height

Dimensions (mm): 3.0 x 2.0 x 1.0 **Test current: 20mA** **Type: Side Firing**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min-max)
HSMF-C142	AlInGaP red	639nm	AlInGaP	120°	1.6V-2.4V	18mcd-66mcd @20mA
	AlInGaP green	570nm	AlInGaP	120°	1.6V-2.4V	18mcd-33mcd @20mA
HSMF-C143	AlInGaP amber	589nm	AlInGaP	120°	1.6V-2.4V	28.5mcd-103mcd @20mA
	AlInGaP green	570nm	AlInGaP	120°	1.6V-2.4V	18mcd-33mcd @20mA
HSMF-C144	AlInGaP red	632nm	AlInGaP	120°	1.6V-2.4V	18mcd-79mcd @20mA
	AlInGaP green	570nm	AlInGaP	120°	1.6V-2.4V	18mcd-33mcd @20mA
HSMF-C145	AlInGaP red	632nm	AlInGaP	120°	1.6V-2.4V	18mcd-79mcd @20mA
	InGaN green	523nm	InGaN	120°	2.9V-3.9V	45mcd-223mcd @20mA
HSMF-C146	AlInGaP red	632nm	AlInGaP	110°	1.6V-2.4V	18mcd-79mcd @20mA
	InGaN blue	464nm	InGaN	110°	2.9V-3.9V	28.5mcd-75mcd @20mA

ChipLED Selection Guide

Tri-color

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0303 Tri-Color ChipLEDs - 0.5mm height

Dimensions (mm): 0.69 x 0.69 x 0.5 **Test current: 10mA(R), 5mA (G&B)** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min-max)
HSMF-C112	red	622nm	AlInGaP	130°	1.6V-2.4V	36mcd-79mcd @10mA
	green	527nm	InGaN	150°	2.4V-3.4V	71mcd-155mcd @10mA
	blue	468nm	InGaN	150°	2.4V-3.4V	14mcd-31.5mcd @ 5mA

0404 Tri-Color ChipLEDs - 0.65mm height

Dimensions (mm): 1.05 x 1.05 x 0.65 **Test current: 10mA(R), 5mA (G&B)** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv (min-max)
HSMF-C116	red	622nm	AlInGaP	137°	1.8V-2.2V	63mcd-140mcd @ 10mA
	green	528nm	InGaN	140°	2.5V-3.3V	135mcd-315mcd @ 5mA
	blue	471nm	InGaN	140°	2.7V-3.3V	24mcd-63mcd @ 5mA

0404 Tri-Color ChipLEDs - 0.25mm height

Dimensions (mm): 1.08 x 1.08 x 0.25 **Test current: 5mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 5mA (min-max)
HSMF-C11B	red	626nm	AlInGaP	140°	1.6V-2.4V	45mcd-285mcd
	green	527nm	InGaN	140°	2.55V-3.15V	112.5mcd-450mcd
	blue	473nm	AlInGaP	140°	2.55V-3.15V	18mcd-112.5mcd

0606 Tri-Color ChipLEDs - 0.7mm height

Dimensions (mm): 1.6 x 1.6 x 0.7 **Test current: 20mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (min)
HSMF-C128	red	626nm	AlInGaP	135°	1.6V-2.4V	28.5mcd
	green	525nm	InGaN	145°	2.7V-3.5V	285mcd
	blue	470nm	AlInGaP	145°	2.7V-3.5V	45mcd

0606 Tri-Color ChipLEDs - 0.4mm height (6 pins)

Dimensions (mm): 1.6 x 1.6 x 0.4 **Test current: 10mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 10mA (min-max)
HSMF-C125	red	623nm	AlInGaP	130°	1.9V-2.4V	45mcd-180mcd
	green	522nm	InGaN	150°	2.93V-3.9V	112.5mcd-360mcd
	blue	467nm	InGaN	150°	2.93V-3.9V	28.5mcd-112.5mcd

0805 Tri-Color ChipLEDs - 0.5mm height

Dimensions (mm): 2.0 x 1.3 x 0.5 **Test current: 10mA** **Type: Top Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 10mA (min)
HSMF-C129	red	623nm	AlInGaP	140°	1.6V-2.4V	18mcd
	green	529nm	InGaN	140°	2.9V-3.9V	71.5mcd
	blue	468nm	AlInGaP	140°	2.9V-3.9V	18mcd

Right Angle Tri-Color ChipLEDs - 1mm height

Dimensions (mm): 3.2 x 1.5 x 1.0 **Test current: 20mA** **Type: Side Firing**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 20mA (min)
HSMF-C127	red	626nm	InGaN	150°	1.6V-2.4V	285mcd
	green	527nm	InGaN	150°	2.9V-3.9V	450mcd
	blue	473nm	AlInGaP	150°	2.9V-3.9V	112.5mcd

Tri-Color Reverse Mount ChipLEDs

Dimensions (mm): 3.2 x 1.2 x 0.8 **Test current: 10mA** **Type: Reverse Mount**

Product Number	Color	Wavelenth (typ.)	Dice Material	Viewing Angle	Vf (min-max)	Iv @ 10mA (min-max)
HSMF-C255	red	623nm	AlInGaP	150°	1.6V-2.4V	28.5mcd-180mcd
	green	521nm	InGaN	125°	2.5V-3.5V	180mcd-450mcd
	blue	466nm	AlInGaP	150°	2.5V-3.5V	28.5mcd-180mcd

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