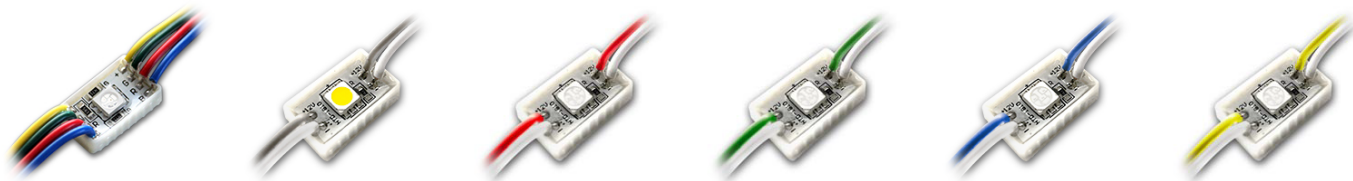


## SPECIFICATIONS

## Dwarf Star 1 Chip LED Backlight Module



**PRODUCT NAME** Dwarf Star 1 Chip LED Backlight Module

**COLORS** RGB, White, Warm White, Red, Green, Blue, Amber

**DESCRIPTION** This 12VDC LED backlight module is the smallest module available on the market. A single 5050 SMD LED chip is housed in a plastic ABS shell with a clear epoxy coating to provide water resistance against moisture. 20AWG DC stranded wire is used between each module. 3M™ mounting tape is on the back of these modules to allow for a near-permanent and secure mounting solution for your LED project. These tiny powerhouse modules are ideal for channel letters, halo lighting, sign lighting, accent and cove lighting, under cabinet lighting, hobbyist lighting, model lighting and many more projects. They carry both CE and RoHS approval. Water resistant only, not submersible and Non-UV proof.

**DIMENSIONS** 0.79"L x 0.47"W x 0.18"H (20 x 12 x 4.5mm)

**MAX CONNECTION** 20 modules in series or 40 with power from both ends

**WORKING TEMP** -4° ~ 122°F

**LIFESPAN** 50,000 hours

**CERTIFICATIONS** CE, RoHS

**WARRANTY** 1 year manufacturers

SKU	Color	Rating	LED Qty	LED Size	Pixel Pitch	Lumens	Beam Angle	Voltage	Amps	Watts	Max Serial Connection
MD-HT-ES1-RGB	RGB	IP65	1 LED/module	5050	4.35" Center to Center	8 lm/module	120°	12VDC	0.06 A/module	0.72 W/module	20 modules
MD-HT-ES1-W	White					22 lm/module					
MD-HT-ES1-WW	Warm White					20 lm/module					
MD-HT-ES1-R	Red					n/a					
MD-HT-ES1-G	Green										
MD-HT-ES1-B	Blue										
MD-HT-ES1-Y	Amber										

These specification are subject to change without notice. This specification information is from the manufacturer of this product. Ecology LED is not the manufacturer of this product.  
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