

LED Channel Letter Product Line Specifications



SideWinder Original • SideWinder 165 • TuffRayz • ThinRayz • ThinRayz Xtra

Diode Specifications

Product Name (Color)	Die Pkg	LEDs per mod	Mod per ft	Viewing Angle
SideWinder Original (R,A)	Single 5mm	4	2	30°
SideWinder Original (G,B,W)	Single 5mm	6	2	30° (G,B) , 20° (W)
SideWinder 165 (R,A)	Single 5mm	4	2	165°
SideWinder 165 (G,B,W)	Single 5mm	6	2	165°
TuffRayz (R,O,A)	Single Piranha	3	2	120°
TuffRayz (G,B,W)	Double-Die Piranha	3	2	120°
ThinRayz (R,A,G,B,W)	Tri-Die SMT	2	3	120°
ThinRayz Xtra (W)	Tri-Die SMT	4	2	120°

Package Dimensions

Product Name (Color)	Length (in)	Width (in)	Total Thickness (in)	Wire Length (in)
SideWinder 165 (R,A,G,B,W)	2.25	0.85	0.375	3.75
SideWinder Original (R,A,G,B,W)	2.25	0.85	0.450	3.75
TuffRayz (R,O,A,G,B,W)	3.30	1.00	0.488	2.70
ThinRayz (R,A,G,B,W)	1.00	0.59	0.188	3.00
ThinRayz Xtra (W)	2.25	0.85	0.188	3.75

Power Consumption

Product Name (Color)	Current per Module (A)	Current per foot (A)	Modules (ft)/20W	Modules (ft)/60W
SideWinder Original (R,A)	0.065	0.130	24 (12.0)	74 (37.0)
SideWinder Original (G,W)	0.061	0.122	26 (13.0)	78 (39.0)
SideWinder Original (B)	0.067	0.134	24 (12.0)	72 (36.0)
SideWinder 165 (R,A)	0.065	0.130	24 (12.0)	74 (37.0)
SideWinder 165 (G,B,W)	0.061	0.122	26 (13.0)	78 (39.0)
TuffRayz (R,O,A)	0.040	0.080	40 (20.0)	120 (60.0)
TuffRayz (G,B,W)	0.050	0.100	32 (16.0)	100 (50.0)
ThinRayz (R,A,G,B,W)	0.053	0.159	30 (10.0)	90 (30.0)
ThinRayz Xtra (W)	0.108	0.216	15 (7.5)	44 (22.0)