



LED Channel Letter Product Line Specifications

LED | solutions

SideWinder Original · SideWinder 165 · TuffRayz · ThinRayz · ThinRayz Xtra

Diode Specifications				
Product Name (Colour)	Die Pkg	LEDs per mod	Mod per metre	Viewing Angle
TuffRayz (R,O,A)	Single Piranha	3	7	120°
TuffRayz (G,B,W)	Double-Die Piranha	3	7	120°
ThinRayz (R,A,G,B,W)	Tri-Die SMT	2	10	120°
ThinRayz Xtra (W)	Tri-Die SMT	4	7	120°
SideWinder 165 (R,A)	Single 5mm	4	7	165°
SideWinder 165 (G,B,W)	Single 5mm	6	7	165°
SideWinder Original (R,A)	Single 5mm	4	7	30°
SideWinder Original (G,B,W)	Single 5mm	6	7	30° (G,B) , 20° (W)
Package Dimensions				
Product Name (Colour)	Length (mm)	Width (mm)	Total Thickness (mm)	Wire Length (mm)
TuffRayz (R,O,A,G,B,W)	83.82	25.40	12.40	68.58
ThinRayz (R,A,G,B,W)	25.40	14.99	4.78	76.20
ThinRayz Xtra (W)	57.15	21.59	4.78	95.25
SideWinder 165 (R,A,G,B,W)	57.15	21.59	9.53	95.25
SideWinder Original (R,A,G,B,W)	57.15	21.59	11.43	95.25
Power Consumption				
Product Name (Colour)	Current per Module (A)	Current per Metre (A)	Modules / 20W	Modules / 60W
TuffRayz (R,O,A)	0.040	0.280	40	120
TuffRayz (G,B,W)	0.050	0.100	32	100
ThinRayz (R,A,G,B,W)	0.053	0.530	30	90
ThinRayz Xtra (W)	0.108	0.756	15	44
SideWinder 165 (R,A)	0.065	0.455	24	74
SideWinder 165 (G,B,W)	0.061	0.427	26	78
SideWinder Original (R,A)	0.065	0.455	24	74
SideWinder Original (G,W)	0.061	0.427	26	78
SideWinder Original (B)	0.067	0.469	24	72