



## Fansink Specifications

Thermal Data	
$\Theta_{SA}^1$ (°C/W)	1.5
TIM Options	3M 8815 Adhesive Pad
	LAIRD T-MATE 2905c
	Contact Radian for other options

Mechanical Data	
Assembly Dimensions	See Figure 1
Heatsink Material	Copper
Surface Finish	Radian Blue Anodized
Force per Push Pin (lb <sub>r</sub> )	Brass: 1.6 ±15% Maximum
	Plastic: 1.6 ±15% Maximum
Push Pin Effective Length (mm) (See Figure 2)	Brass: 13.72 ±0.127
	Plastic: 12.29 ±0.127
Maximum Combined Thickness (mm) <sup>2</sup>	Brass: 11
	Plastic: 9.5
Push Pin Extension Length under PCB (mm) (See Figure 2)	Brass: 2.16 ±0.127
	Plastic: 3.2 ±0.127
Recommended PCB Hole Diameter for Push Pin (mm)	Brass: 3.0
	Plastic: 3.2
Connector	Molex 22-01-3037
Connector Receptacle	Mates KK 254 PCB Headers
Mass (g)	57
Noise (dB (A))	34 (Max 37)

Electrical Data	
Operating Voltage (V <sub>DC</sub> )	12
	13.8 Max
Connector Pins	08-50-0114 OR EQUIVALENT
Starting Voltage (VDC)	9 (ON/OFF)
Input Current (A)	0.1 (Max 0.12)
Wire Description	See Figure 1
Signal Circuit	See Figure 3
Fan Speed (RPM)	7,500 ±15%

Environmental Data	
Operating Temperature (°C)	-10 to +70
Storage Temperature (°C)	-40 to +75
Operating Humidity (%RH)	35 to 85
Storage Humidity (%RH)	35 to 85
Average Life Expectancy	70,000 hours operation at rated voltage in 40°C with 15~65%RH

<sup>1</sup> Typical value, actual performance may vary depending on application environment.

<sup>2</sup> Combined thickness is the sum of the PCB, chip, thermal pad and heatsink base thicknesses.

## Fansink Assembly Drawings

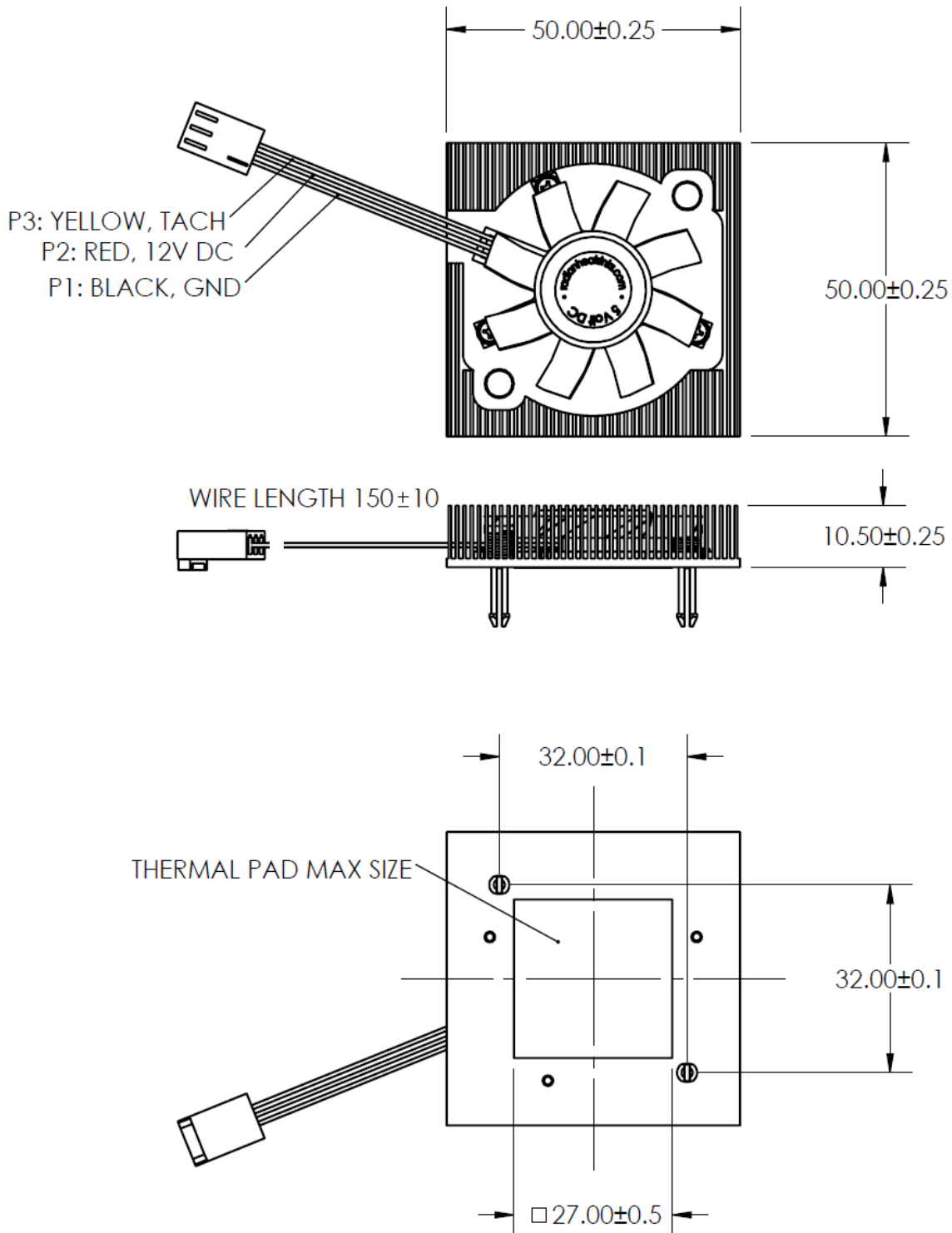


Figure 1: SC12S Mechanical Drawings

## Push Pin Illustration

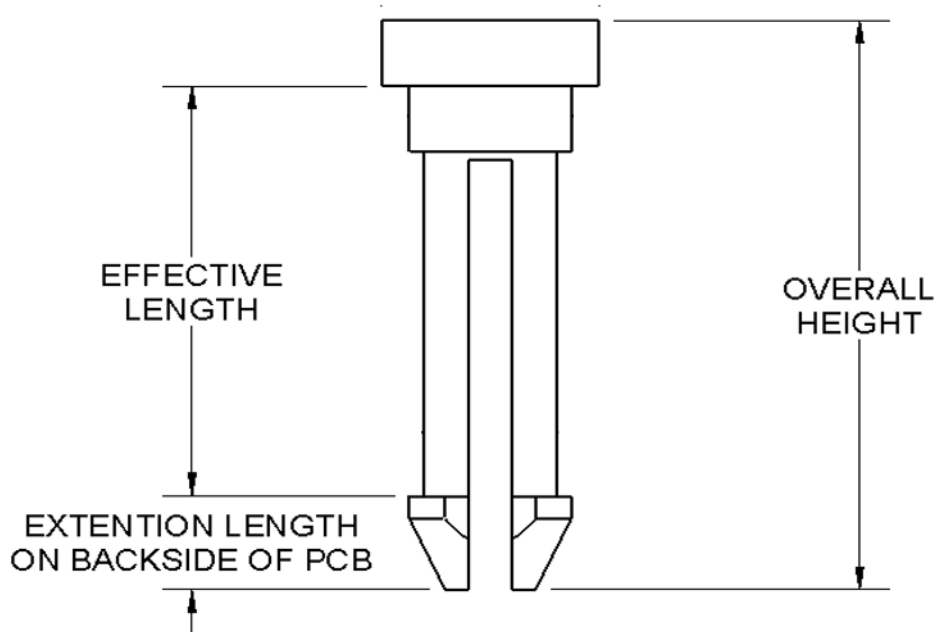
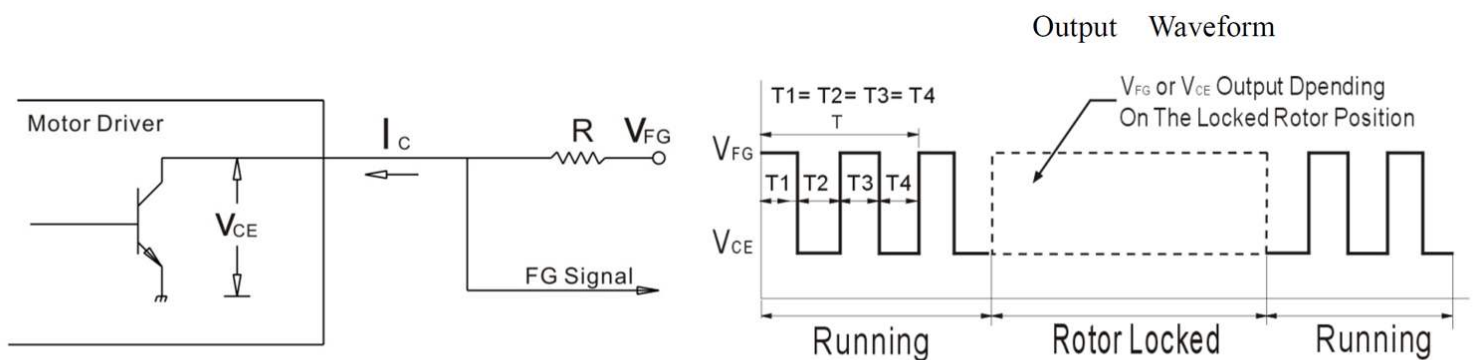


Figure 2: Push Pin Illustration

## Fan Circuit Schematic



Output Type : Open Collect

$V_{CE(sat)}=0.5V(\text{Max.})$

$I_C=5mA(\text{Max.})$

$V_{FG}=\text{Maximum operation voltage}$

$R \geq V_{FG} / I_C$

$N=R.P.M ; T= 60/N (\text{Sec.}) ; FG=1/T*2 (\text{Hz}) ; N=FG*30$

Figure 3: SC12S Signal Circuit Schematic