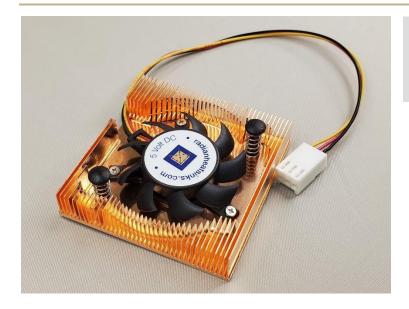
Scorpion PCIe Fansink – SC05S

Radian Thermal Products has been committed to helping our customers with full-service mechanical and thermal solutions since 1974. Radian offers a range of standard PCIe active and passive cooling solutions as well as custom designs to meet customer requirements.



Description:

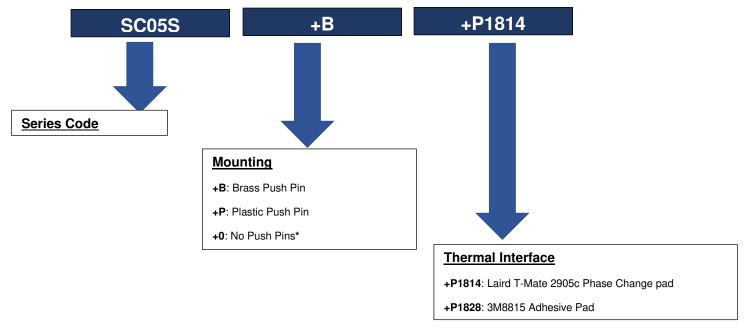
Scorpion Fansink, 50 x 50 x 10.5mm, 5V

Buy Online at: Radianheatsinks.com

PART	SC05S
MOUNTING	Push Pin
MATERIAL	Copper
LENGTH (mm)	50.0
WIDTH (mm)	50.0
HEIGHT (mm)	10.5
VOLTAGE (V DC)	5.0

Model Numbering System

Part numbers can be customized as follows:



*Must be combined with 3M8815 Adhesive Pad.



Fansink Specifications

Thermal Data		
θ _{SA} ¹ (°c/w)	1.5	
TIM Options	3M 8815 Adhesive Pad	
	LAIRD T-MATE 2905c	
	Contact Radian for other options	

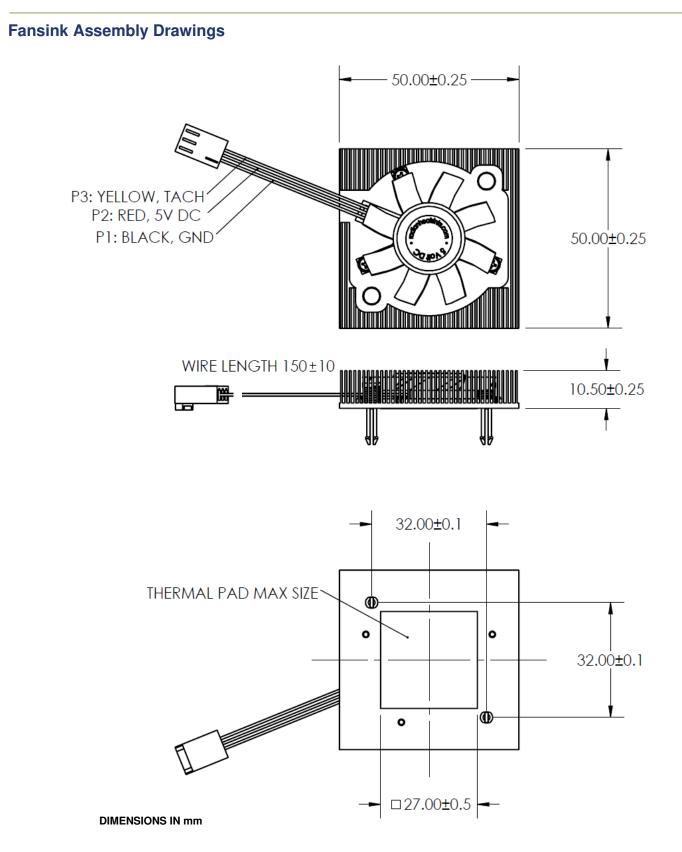
Mechanical Data		
Assembly Dimensions	See Figure 1	
Heatsink Material	Copper	
Surface Finish	Anti-Oxidation	
Force per Push Pin (lb _f)	Brass: 1.6 ±15% Maximum	
	Plastic: 1.6 ±15% Maximum	
Push Pin Effective Length (mm) (See Figure 2)	Brass: 13.72 ±0.127	
	Plastic: 12.29 ±0.127	
Maximum Combined Thickness (mm) ²	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	
Masst (g)	57	
Noise (dB)	33.85	

Electrical Data		
Operating Voltage (V _{DC})	5	
	6.2 Max	
Connector Pins	08-50-0114 OR EQUIVALENT	
Starting Voltage (VDC)	4 (ON/OFF)	
Input Current (A)	0.19 +/- 0.02	
Wire Description	See Figure 1	
Signal Circuit	See Figure 3	

Environmental Data		
Operating Temperature (°C)	-10 to +70	
Storage Temperature (°C)	-40 to +75	
Operating Humidity (%RH)	5 to 90	
Storage Humidity (%RH)	5 to 95	
MTBF	30,000 hours continuous operation at 25°C with 15~65 %RH.	

¹ Typical value, actual performance may vary depending on application environment. ² Combined thickness is the sum of the PCB, chip, thermal pad and heatsink base thicknesses.

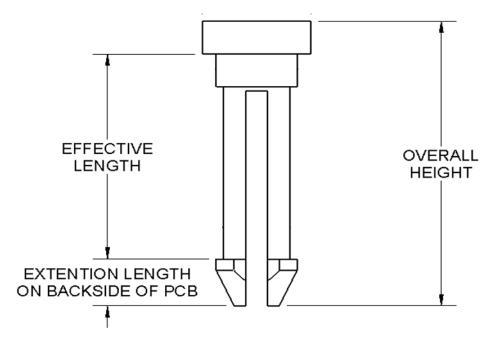








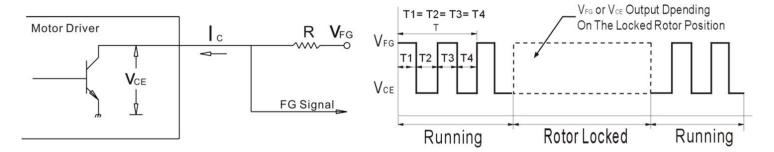
Push Pin Illustration





Fan Circuit Schematic

Output Waveform



 $\begin{array}{lll} \mbox{Output Type : Open Collect} & \mbox{N=R.P.M }; \mbox{T= 60/N (Sec.) }; \mbox{FG=1/T*2 (Hz) }; \mbox{N=FG*30} \\ \mbox{V_{CE} (sat)=0.5V(Max.)} & \mbox{V_{FG}=Maxi mum operation voltage} \\ \mbox{Ic=5mA (Max.)} & \mbox{R} \geqslant \mbox{V_{FG} / Ic} \end{array}$

Figure 3: SC50S Signal Circuit Schematic