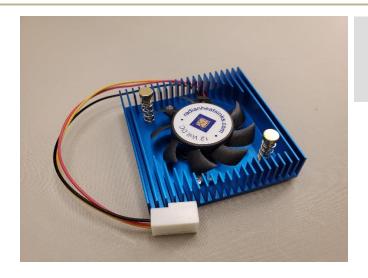
Radian Thermal Products has been committed to helping our customers with full-service mechanical and thermal solutions since 1974. Radian offers a range of standard PCIe active and passive cooling solutions as well as custom designs to meet customer requirements.



Description:

 Sub-Zero PCle Fansink, 50 x 50 x 10.5mm, 12V

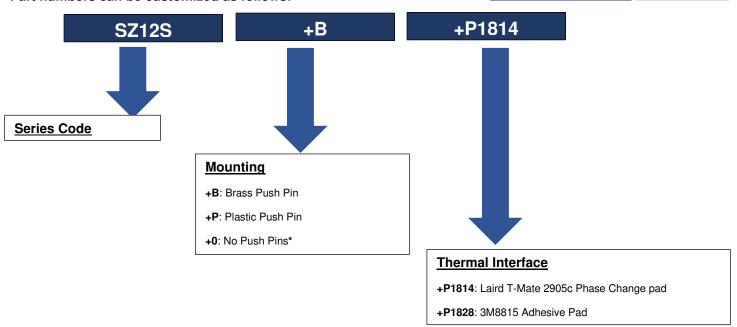
Buy Online at:

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PART	SZ12S
MOUNTING	Push Pin
MATERIAL	Aluminum
LENGTH (mm)	50.0
WIDTH (mm)	50.0
HEIGHT (mm)	10.5
VOLTAGE (V DC)	12.0

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)	2.2	
TIM Options	3M 8815 Adhesive Pad	
	LAIRD T-MATE 2905c	
	Contact Radian for other options	

Mechanical Data		
Assembly Dimensions	See Figure 1	
Heatsink Material	Aluminum	
Surface Finish	Radian Blue Anodized	
Force per Push Pin (lb _f)	Brass: 1.14 ±15% Maximum	
	Plastic: 1.68 ±15% Maximum	
Push Pin Effective Length (mm) (See Figure 2)	Brass: 13.72 ±0.127	
	Plastic: 12.29 ±0.127	
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)	23	
Noise (dB (A))	34 (Max 37)	

Electrical Data		
Operating Voltage (V _{DC})	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%	

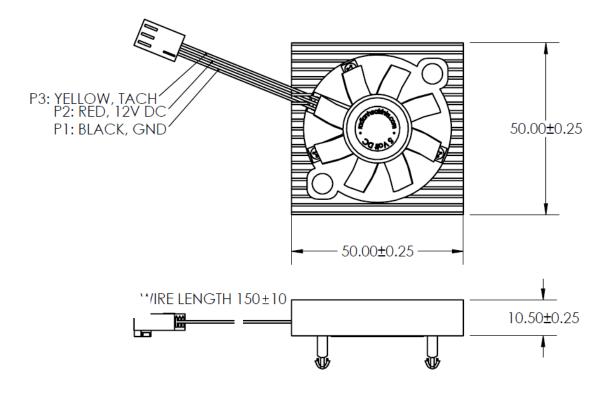
Environmental Data		
Operating Temperature (°C)	-10 to +70	
Storage Temperature (°C)	-40 to +75	
Operating Humidity (%RH)	35 to 85	
Storage Humidity (%RH)	35 to 85	
Average Life Expectancy	70,000 hours operation at rated voltage in 40°C with 15~65%RH	

Radian Thermal Products, Inc. / sales@radianheatsinks.com / T. +1 408.988.6200

¹ Typical value, actual performance may vary depending on application environment.



Fansink Assembly Drawings



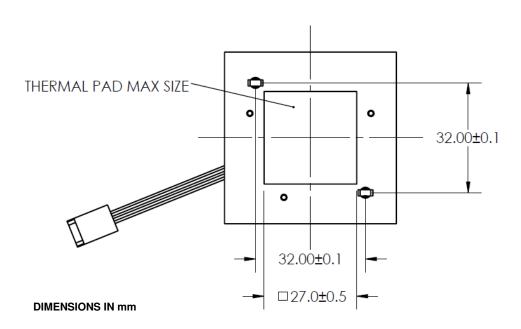


Figure 1: SZ12S Mechanical Drawings



Push Pin Illustration

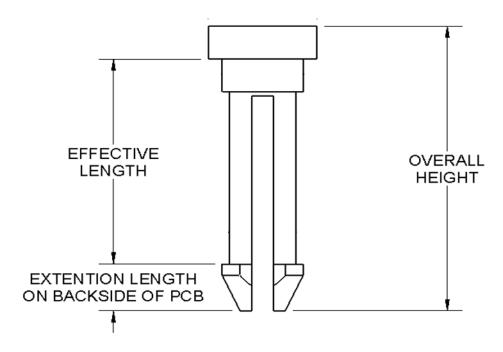
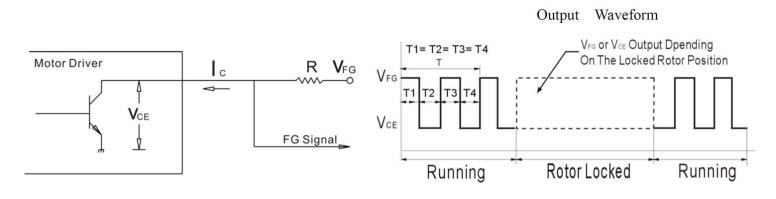


Figure 2: Push Pin Illustration

Fan Circuit Schematic



Output Type : Open Collect N=R.P.M ;T=60/N (Sec.) ;FG=1/T*2 (Hz) ;N=FG*30 V_{CE} (sat)=0.5V(Max.) V_{FG} =Maxi mum operation voltage

Ic=5mA (Max.) $R \geqslant V_{FG} / Ic$

Figure 3: SZ12S Signal Circuit Schematic