

ST6N105 DATA SHEET

RF Load 10 Watts Medium Power To 6 GHz IP68 Rated Black Anodized Aluminum Heatsink N Male

RF termination (also called RF load or dummy load) ST6N105 from Fairview Microwave operates from DC to 6 GHz and handles up to 10 Watts (CW). This N termination (or load) has a male gender, ST6N105 N load termination offers 1.15:1 max VSWR. This 10W N terminator from Fairview Microwave has a heatsink body which is designed to provide adequate heat dissipation within its full frequency of operation.

RF terminations / loads are critical passive components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can reduce the signal integrity and can potentially damage the device. By terminating an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These radio frequency termination components are commonly used to terminate devices such as couplers, circulators, and switches. Loads / terminations are also widely used in measurement systems to ensure accurate results. Fairview offers a large selection of in-stock RF, microwave and millimeter wave terminations up to 65 GHz with great performance over the entire operating range and with power handling capabilities up to 800 Watts (CW).

Electrical Specifications

Description	Min	Тур	Max	Units	
Frequency Range	DC		6	GHz	
Impedance		50		Ohms	
VSWR			1.15:1		
Input Power (CW)			10	Watts	
derated linearly to 1W at +125°C					
Input Power (Peak)			1	KWatts	
0.2% duty cycle					

Mechanical Specifications

Size

Length 2.01 in [51.05 mm] Width 1.1 in [27.94 mm] 0.17064 lbs [77.4 q] Weight

Configuration

Connector N Male

Material Specifications

Description	Material	Plating	
Connector 1 Contact	Brass	Gold	
Insulation	PTFE		
Body	Brass	Tri-Metal	
Coupling Nut	Brass	Tri-Metal	
Housing	Black Anodized Aluminum Heatsink		



Features:

- DC to 6 GHz Frequency Range
- VSWR 1.15:1 Max
- Max Power 10 Watts (CW)
- N Male Coaxial Interface

Applications:

- Wireless
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military Communication

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Environmental Specifications

Temperature

Operating Range -40 to +120 deg C

Ingress Protection (IP) Rating IP68 (mated condition)

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

RF Load 10 Watts Medium Power To 6 GHz IP68 Rated Black Anodized Aluminum Heatsink N Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: RF Load 10 Watts Medium Power To 6 GHz IP68 Rated Black Anodized Aluminum Heatsink N Male ST6N105

URL: https://www.fairviewmicrowave.com/rf-load-10-watts-6-ghz-n-male-st6n105-p.aspx

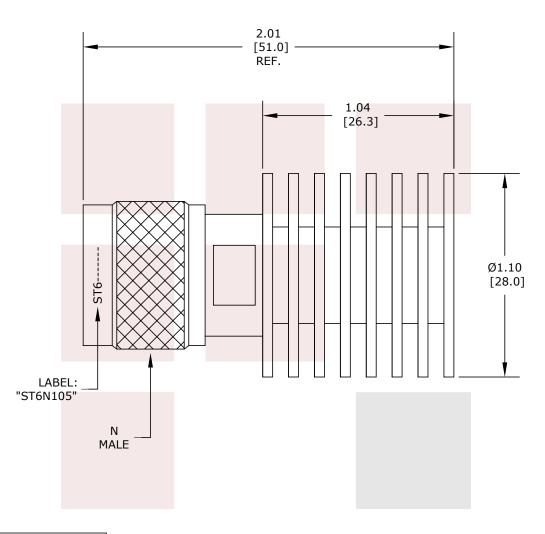
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STANDARD TOLERANCES
DECIMAL
.XX ±0.20
.XXX ±0.10

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
RF Load 10 Watts Medium Power To 6 GHz IP68 Rated Black Anodized Aluminum Heatsink N Male	DWG NO ST6N105			CAGE CODE 3FKR5			
	CAD FILE 041316	SHEET	SCALE	N/A	SIZE A	3045	