

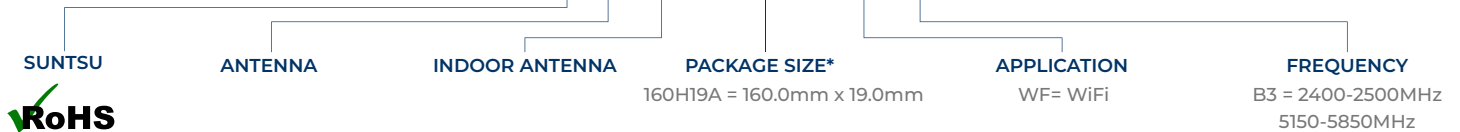
Features
<ul style="list-style-type: none"> <li>• WiFi / Bluetooth</li> <li>• Indoor Antenna</li> <li>• 50 Ohm Impedance</li> <li>• 2400-2500MHz &amp; 5150-5850MHz</li> <li>• Omni Radiation</li> </ul>

Applications
<ul style="list-style-type: none"> <li>• Bluetooth &amp; IEEE 802.11a/b/g/ac</li> <li>• Wireless Communication</li> <li>• Portable Device</li> <li>• Machine To Machine Communication</li> <li>• Network Devices</li> </ul>



### Part Numbering Guide

## S AT IA 160H19A WF B3



\* Where letters denote decimal location (A=0, B=1, C=2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

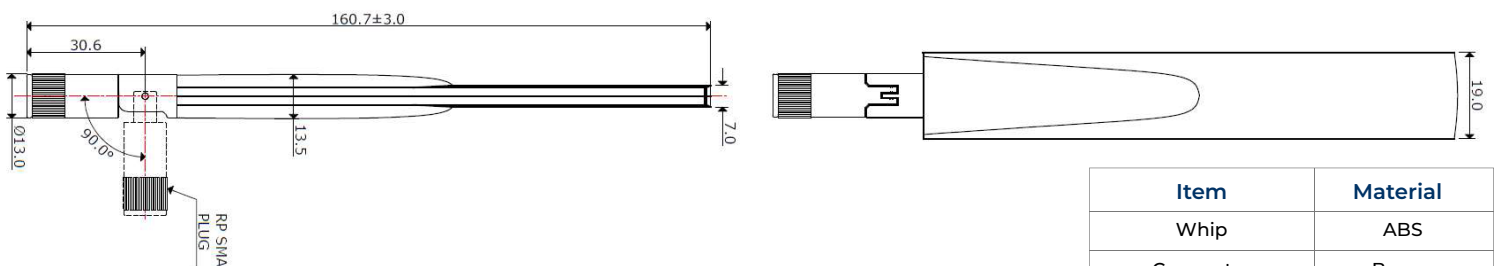


Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	2400		2500	
Impedance	$\Omega$		50		
Polarization			Vertical		
Peak Gain	dBi		2.15		At 2450MHz
Efficiency	%		75		At 2450MHz
VSWR				2	At Center Frequency
Operating Temperature	C	-20		65	

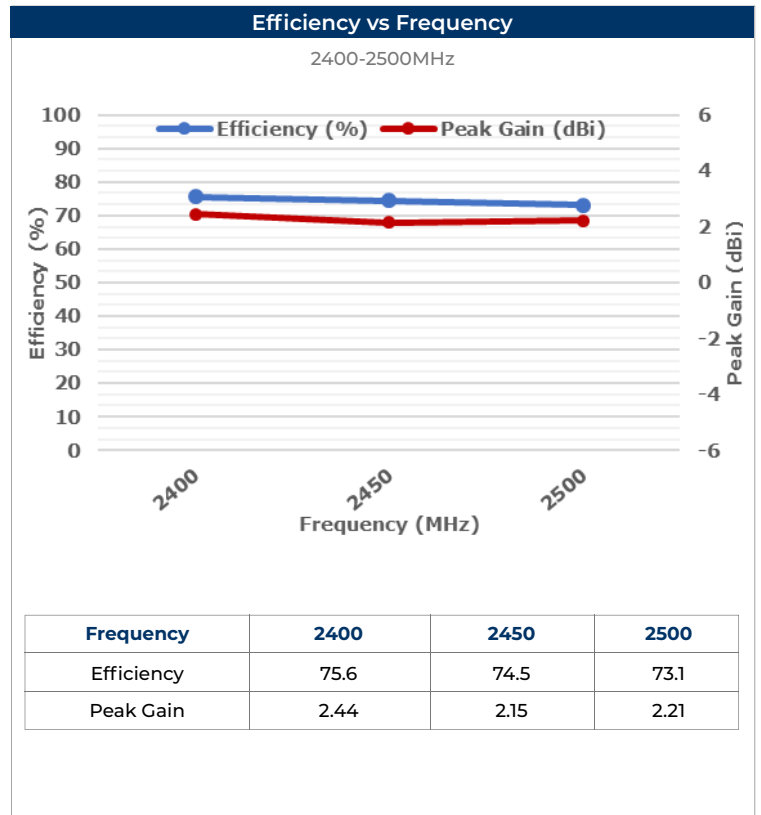
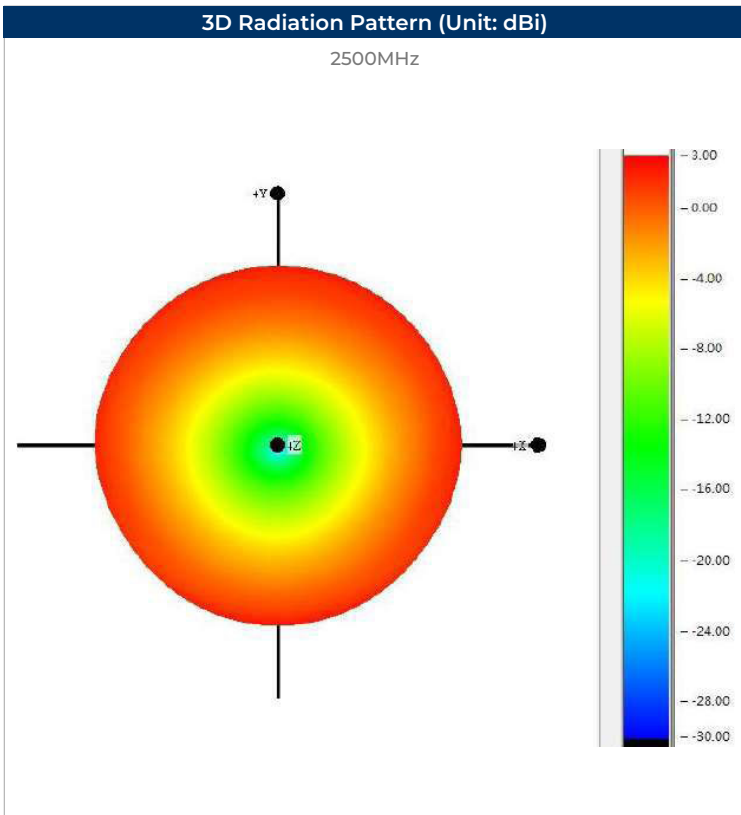
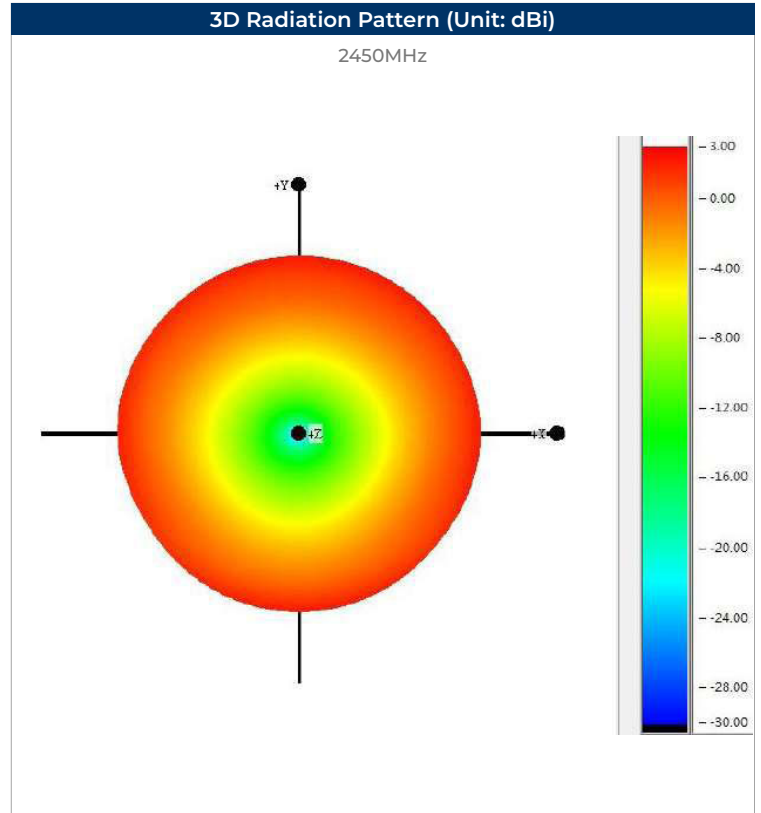
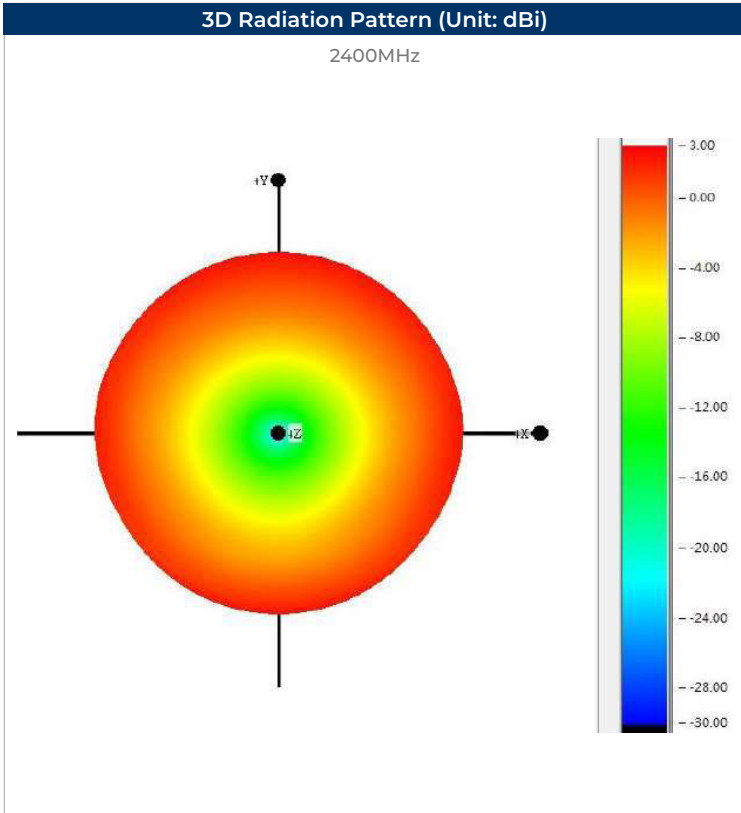
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	5150		5850	
Impedance	$\Omega$		50		
Polarization			Vertical		
Peak Gain	dBi		4.4		At 5550MHz
Efficiency	%		61		At 5550MHz
VSWR				2	At Center Frequency
Operating Temperature	C	-20		65	

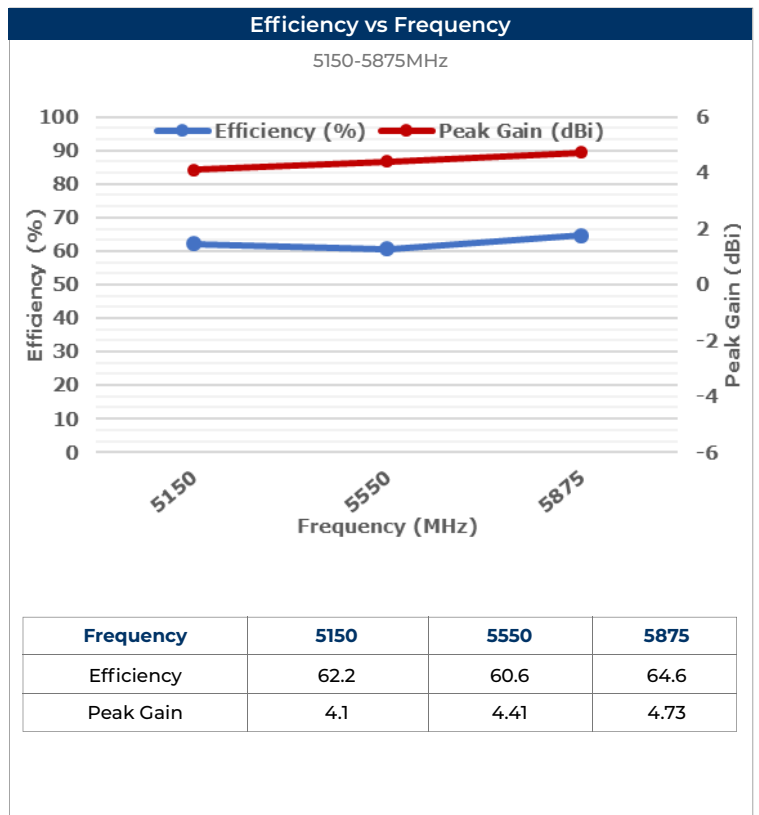
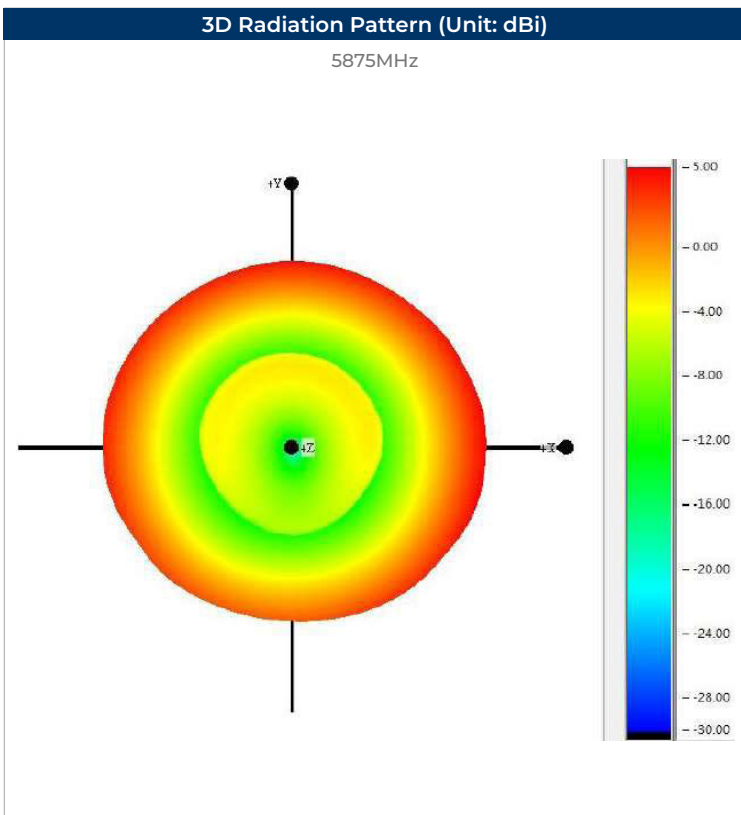
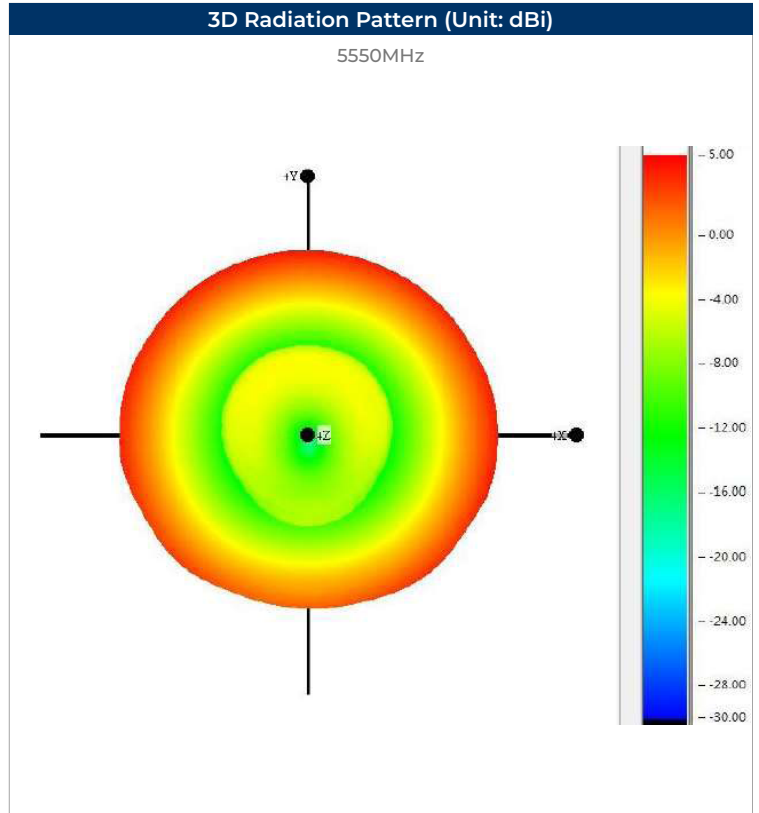
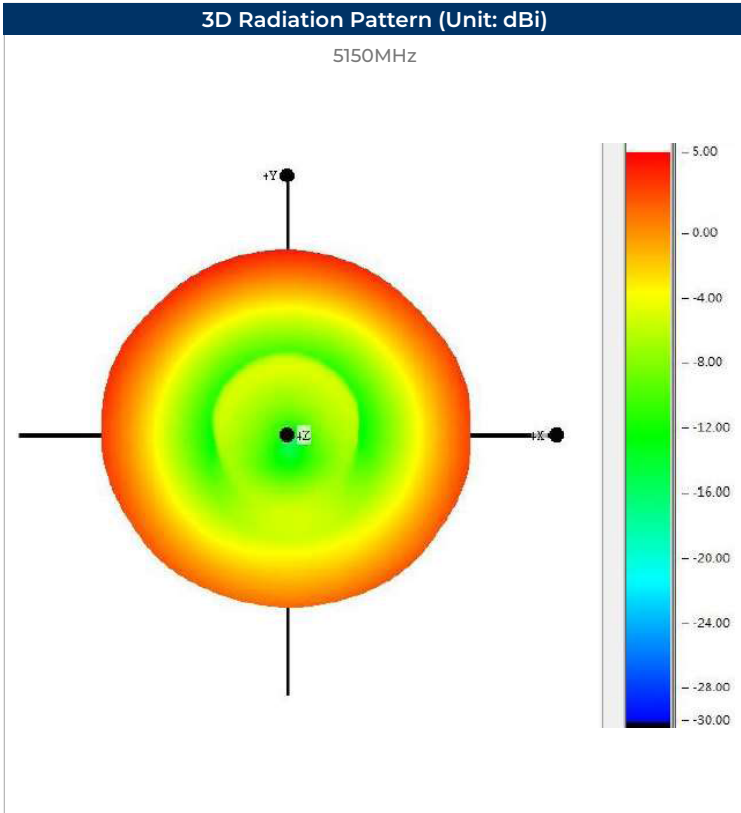
### Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Item	Material
Whip	ABS
Connector	Brass
Connector Insulator	Teflon

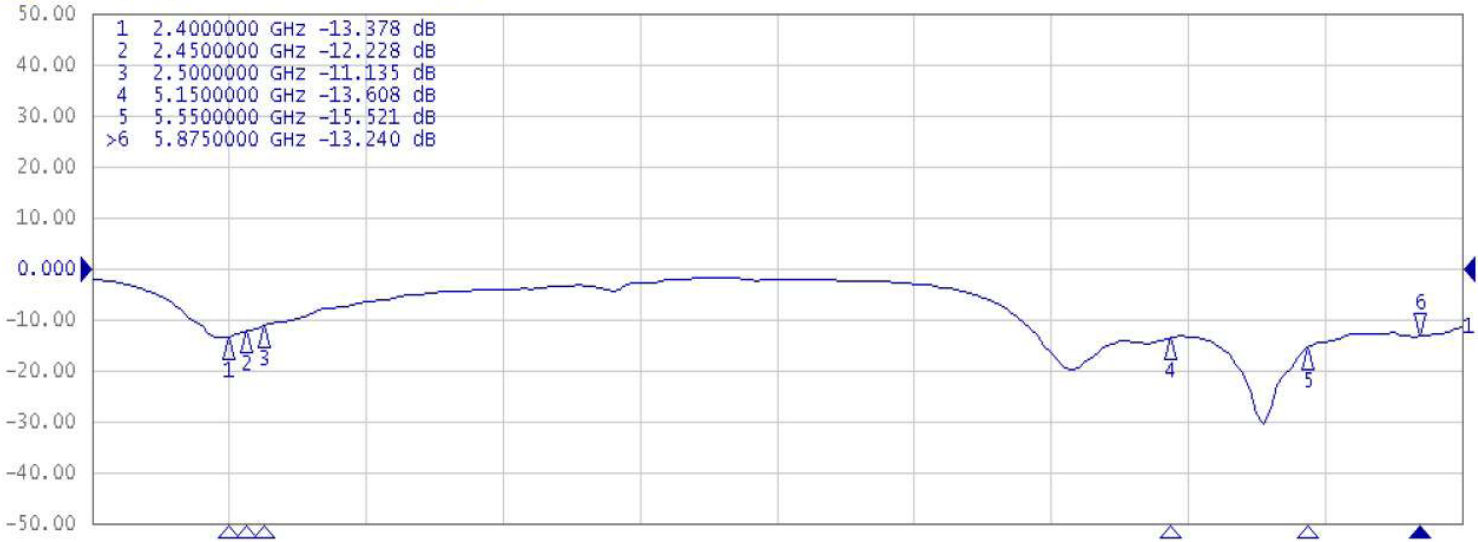




**Electrical Test**

Return Loss

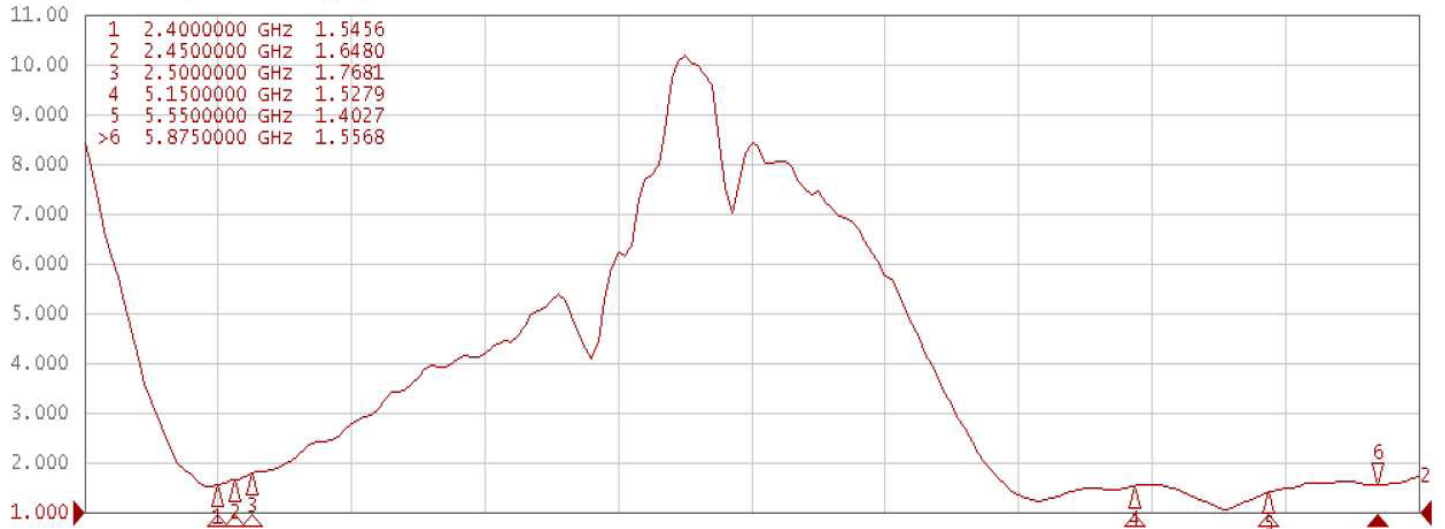
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



**Electrical Test**

VSWR

Tr2 S11 SWR 1.000/ Ref 1.000 [F2]



**Environmental & Mechanical Specifications**

High Temperature Test	70°C for 48 hours, and then to normal temperature/humidity High Temperature Test for 24hours.
Low Temperature Test	-20°C for 48 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	65°C / 90%RH for 48 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-20°C for 30 min and +70°C for 30 min. 48 cycles, then expose to normal temperature/humidity for 24 hours or more.