



## DESCRIPTION

**SSPD-113-49:** Diplexer operates at 850 to 1990 MHz and 2400 to 2500 MHz, allowing simultaneous use of a single antenna between GSM and wireless LAN type devices.

The diplexer exhibits very low insertion loss and has excellent isolation between frequency bands. Hermetically sealed.

Can be paired with Sensor Systems telemetry and wireless antennas such as the S65-5366-715 and the S65-5366-716.

**FEDERAL & MILITARY SPECS:** IEEE 802.11 b/g, GSM (Global System for Mobile Communications), MIL-STD-810, MIL-HDBK-5400, MIL-E-5272.

SPECIFICATIONS	
<b>MODEL</b>	<b>SSPD-113-49</b>
<b>ELECTRICAL</b>	
<b>Frequency</b>	850 - 1990 MHz 2400 - 2500 MHz
<b>VSWR</b>	≤1.8:1
<b>Impedance</b>	50 ohms
<b>Insertion Loss</b>	1.0 dB Typical
<b>Isolation</b>	850-1800 MHz: >20.0 dB 1800-1990 MHz: >15.0 dB 2400-2500 MHz: >20.0 dB
<b>Power</b>	850-1990 MHz: 6 Watts CW (Max) 2400-2500 MHz: 1 Watt CW (Max)
<b>MECHANICAL</b>	
<b>Weight</b>	4 oz.
<b>Dimensions</b>	Height: 1.18 in. Length: 3.25 in. Width: 1.38 in.
<b>Finish</b>	Blue Paint per Fed-Std-595 #25109
<b>Material</b>	6061-T6 Alum Alloy
<b>Connector</b>	Two (2) "TNC" Female One (1) "TNC" Male
<b>ENVIRONMENTAL</b>	
<b>Temperature</b>	-40°F (-40°C) to +185°F (+85°C)
<b>Altitude</b>	70,000 ft
<b>Shock</b>	15±2 Gs for 11±1 ms Half-Sine
<b>Vibration</b>	9 G's

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**Note: For Reference Only.**  
Contact Sensor Systems for the latest engineering drawings.

Doc # DS SSPD-113-49\_A, 031014: MRKT [DB] ENG [RC] QC [DJ]

