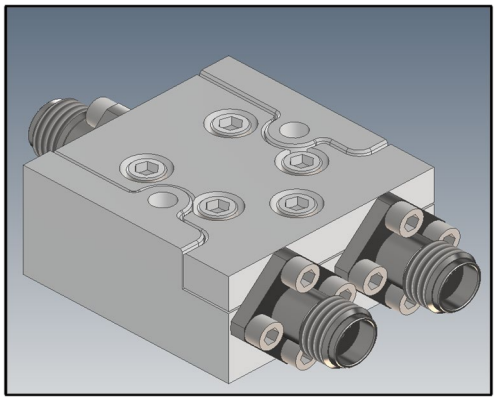

FEATURES

- Space Heritage Design
- Excellent Amplitude and Phase Balance
- RF Ports Matched to 50 Ohms
- Compact Design for Space & Weight Savings

TYPICAL APPLICATIONS

- Phased Arrays
- Beamforming Networks
- Multi-Channel Distribution

ELECTRICAL SPECIFICATIONS (@ 23°C)

Parameter	Min	Max	Typ	Units
Frequency Range	8.00	16.00	-	GHz
Amplitude Balance	-	0.2		dB
Phase Balance	-	5	-	°
Isolation	20	-	-	dB
Insertion Loss	-	0.6		dB
VSWR Input	-	1.35:1	-	-
VSWR Output	-	1.40:1	-	-
CW Input Power with VSWR 1.2:1	-	10	-	W
CW Input Power with VSWR 2.0:1	-	1	-	W
Operating Temperature	-55	+85		°C

Connector Options	SMA Female (MIL-PRF-39012)
*Screening Options	-EM = Engineering Model (No Screening) -FM = Standard Screening

***Screening options do not include Element Evaluation, Group B nor Group C Testing. Consult factory to add these requirements. Engineering Models are built using same materials and processes but are not screened. Not recommended for flight.**

Included Standard Screening (100% of Units)

Parameter	Test Method
Internal Visual	MIL-STD-883, Method 2017
Vibration (Random)	MIL-STD-202, Method 214, Condition A, 1 min/axis
Temperature Cycling	MIL-STD-883, Method 1010, Condition B, -55°C to +125°C
Stabilization Bake	MIL-STD-883, Method 1008, Condition B, +125°C
Burn-in	240 Hours @ 125°C
Electrical Test @ Temp Extremes	Verify Specifications @ -55°C, +23°C, +85°C
External Visual	MIL-STD-883, Method 2009

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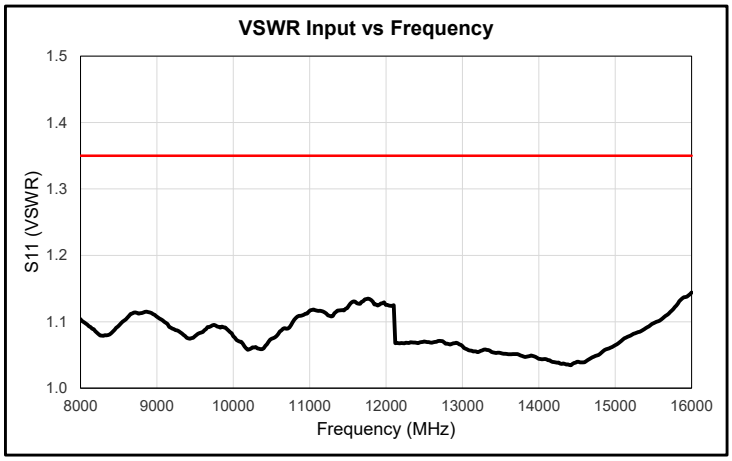
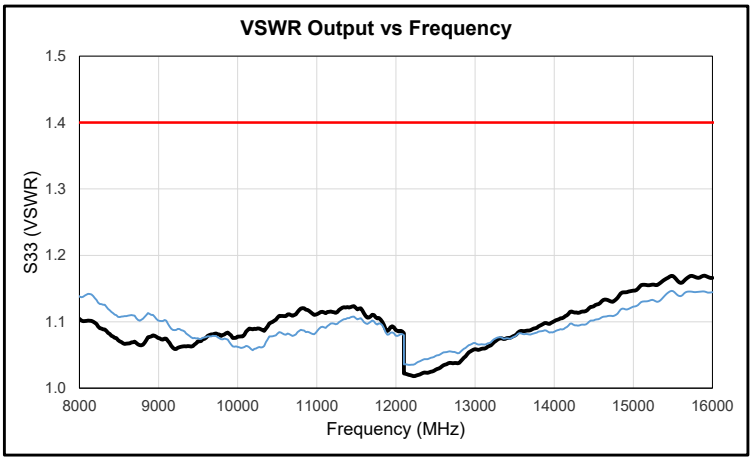
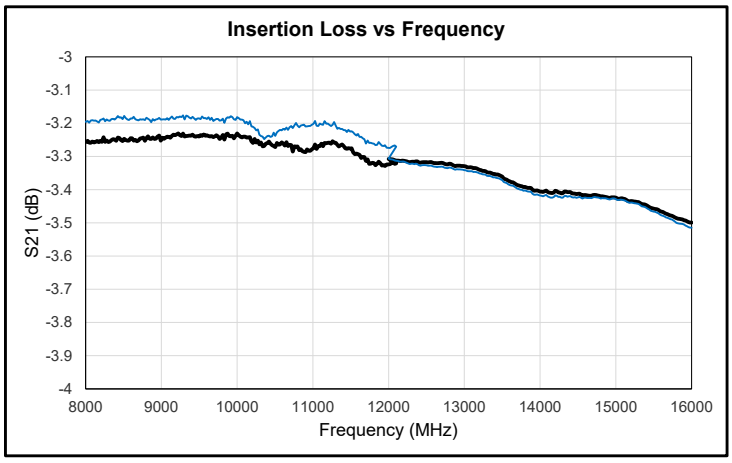
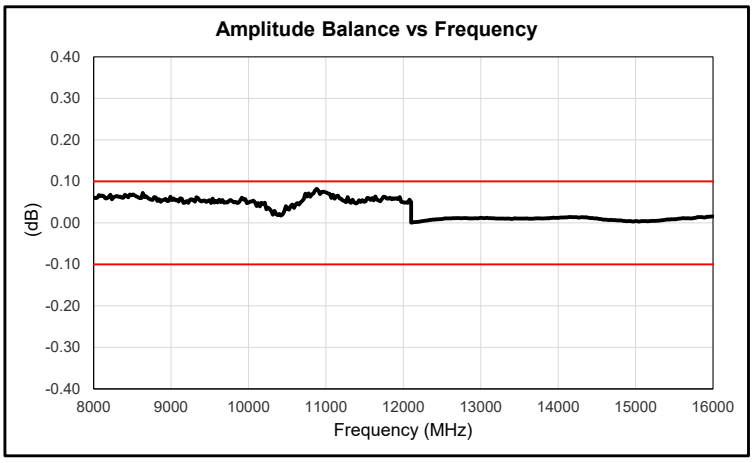
DS-09 Rev 1
June 3 2026

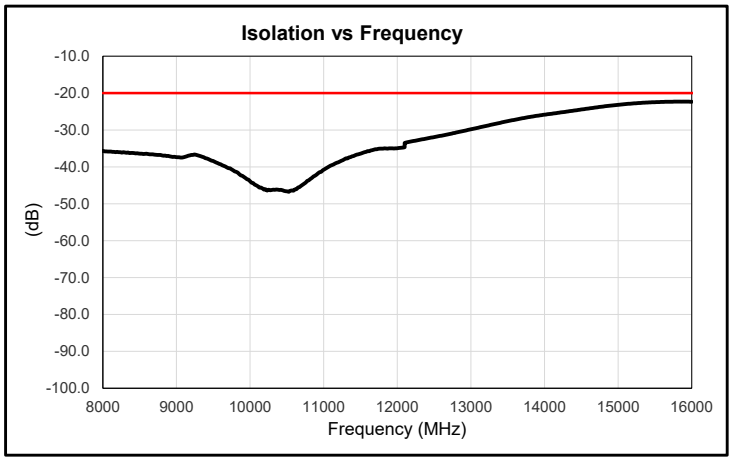
Typical Performance @ 23°C

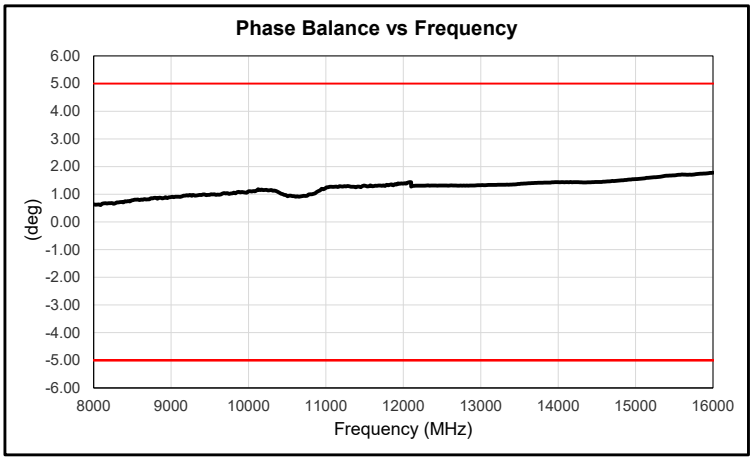












S2P file may be available upon request

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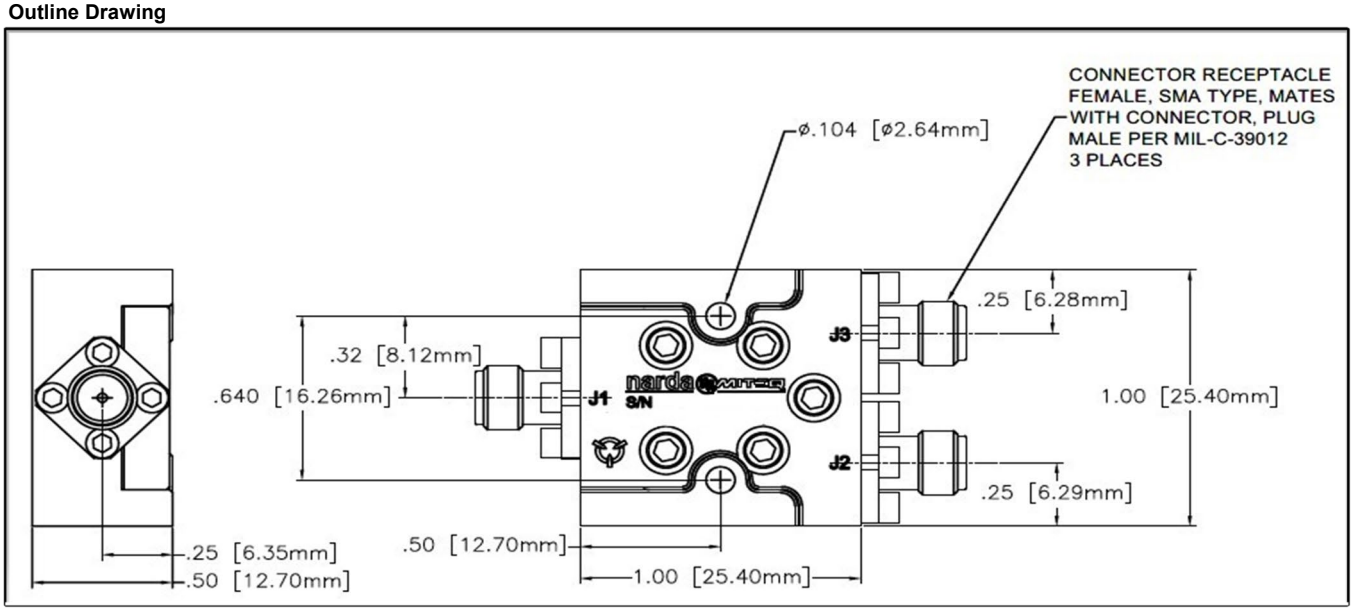
Outline Drawing



STEP file may be available upon request

Mechanical Specifications

Parameter	Value
Length	1.00 in [25.40 mm]
Width	1.00 in [25.40 mm]
Height	0.50 in [12.70 mm]
Connectors	SMA(F)
Approx. Weight	1.1 oz [32 g]

Ordering Information

SPD 2 - 8000 - 16000 - 10 - FM

# of Outputs

Operating Freq. (MHz)

Input Power (W)

Screening Options
-EM = Engineering Model (No Screening)
-FM = Standard Screening

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