

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature ⁽¹⁾	-40 to +85 °C
Operable Temperature ⁽²⁾	-30 to +85 °C
DC Voltage (instantaneous only on any port)	+5 V

Notes:

1. Operation of this device outside the parameter ranges given may cause permanent damage.
2. Specifications are not guaranteed over all operable conditions.

Electrical Specifications ^(1,2,3)

Test conditions unless otherwise noted: ⁽²⁾ Temp= -30 °C to +85 °C

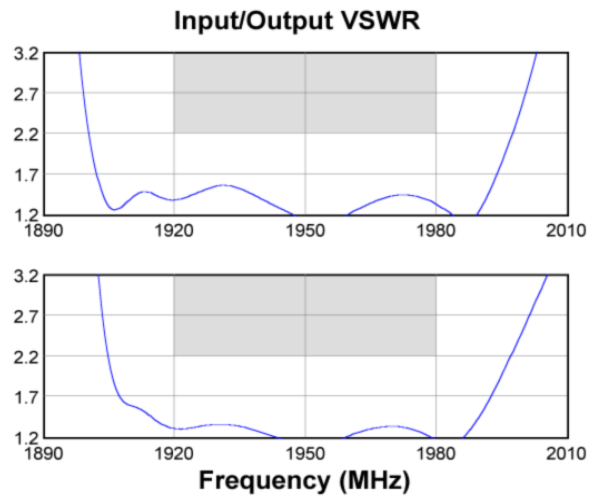
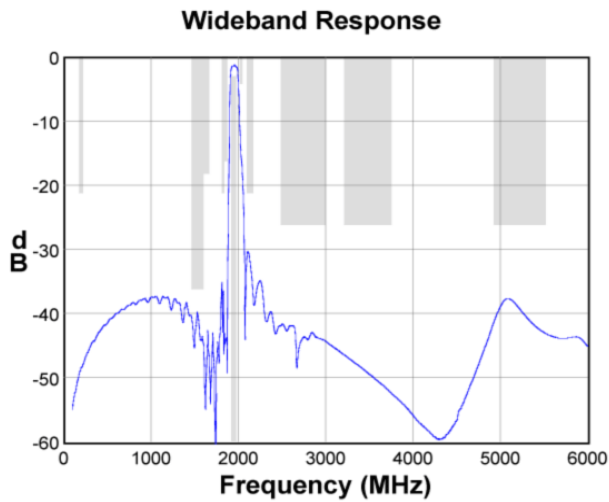
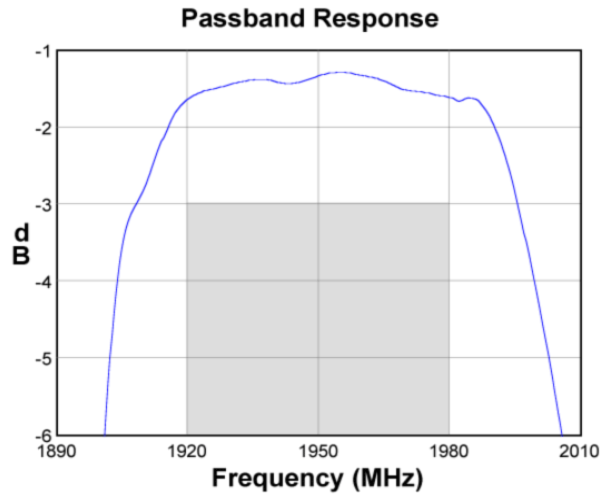
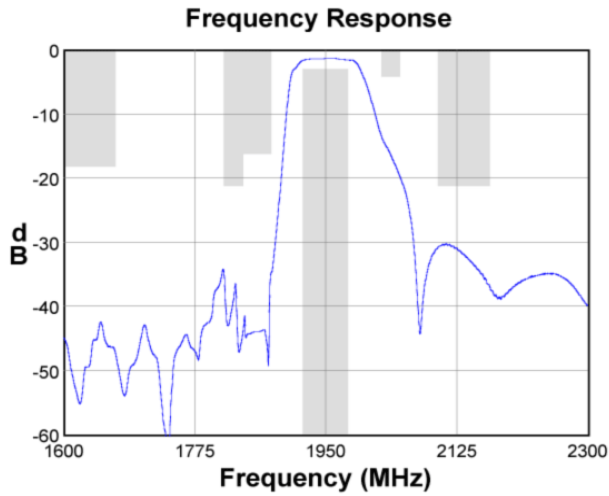
Parameter ⁽³⁾	Conditions	Min	Typ ⁽⁴⁾	Max	Units
Center Frequency		-	1950	-	MHz
Insertion Loss	1920 – 1980 MHz	-	1.8	3.0	dB
Amplitude Variation	1920 – 1980 MHz		0.45	1.6	dB p-p
	1920 – 1980 MHz (over any 5 MHz band)		0.25	0.8	
Phase Ripple	1920 – 1980 MHz		16	30	Deg.
Absolute Delay	1920 – 1980 MHz		11	50	ns
Group Delay Variation	1920 – 1980 MHz		6	30	ns p-p
Stopband Attenuation (relative to zero dB)	180 – 220 MHz	20	49	-	dB
	1470 – 1500 MHz	35	44.5	-	
	1500 – 1540 MHz	35	40.5	-	
	1540 – 1570 MHz	35	42	-	
	1570 – 1601 MHz	35	45.5	-	
	1601 – 1670 MHz	17	42	-	
	1814 – 1840 MHz	20	33	-	
	1840 – 1878 MHz	15	35.5	-	
	2025 – 2050 MHz	3	11.5	-	
	2100 – 2170 MHz	20	28	-	
	2490 – 3000 MHz	25	44	-	
	3213 – 3755 MHz	25	51.5	-	
	4925 – 5527 MHz	25	41.5	-	
Input/Output VSWR	1920 – 1980 MHz	1.5:1	2.2:1		-
Source Impedance ⁽⁵⁾	single-ended	-	50	-	Ohms
Load Impedance ⁽⁵⁾	single-ended	-	50	-	Ohms

Notes:

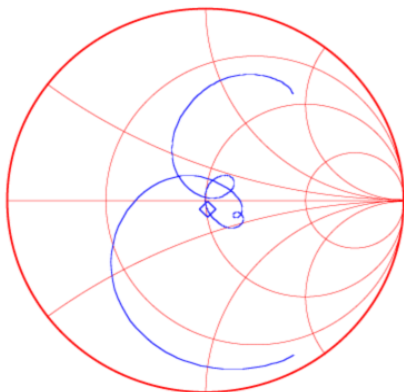
1. All specifications are based on the test circuit shown below.
2. Production test is performed at room temp. to a guard-banded specification to ensure electrical compliance over temperature.
3. Electrical margin has been built into the design to account for variation due to temperature drift and manufacturing tolerances.
4. Typical values are based on average measurements at room temperature
5. This is the optimum impedance in order to achieve the performance shown.

Performance Plots

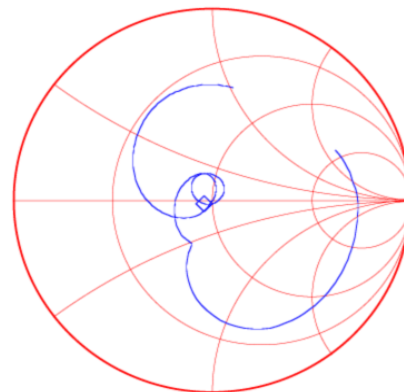
Test conditions unless otherwise noted: Temp= +25°C



Input Smith Chart



Output Smith Chart



Product Compliance Information

ESD Sensitivity Ratings



Caution! ESD-Sensitive Device

ESD Rating: Class 0A
Value: Passes ≤ 100 V
Test: Electrostatic Discharge Sensitivity Testing,
Human Body Model (HBM) - component level
Standard: ESDA/JEDEC JS-001-2012

ESD Rating: Class A
Value: Passes ≤ 50 V
Test: Machine Model (MM)
Standard: JEDEC Standard JESD22-A115

MSL Rating

Not applicable. Hermetic package.

Solderability

Compatible with both lead-free (260°C maximum reflow temperature) and tin/lead (245°C maximum reflow temperature) soldering processes.

Refer to [Soldering Profile](#) for recommended guidelines.

RoHS Compliance

This part is compliant with EU 2002/95/EC RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment).

This product also has the following attributes:

- Lead Free
- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A (C₁₅H₁₂Br₄O₂) Free
- PFOS Free
- SVHC Free

Contact Information

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