



Mini-Circuits

SUSPENDED SUBSTRATE STRIPLINE COAXIAL

Diplexer

ZDSS-2R6G3R6GS+

50Ω DC to 8000 MHz (DC - 2600, 3600 - 8000 MHz) SMA Female

KEY FEATURES

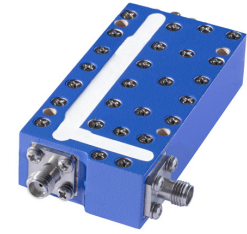
- Low passband Insertion Loss, 0.7 dB Typ.
- Fast Rejection Roll-off
- High Rejection Floor, 80 dB Typ.

APPLICATIONS

- Test & Measurement
- Radar
- Electronic Countermeasures

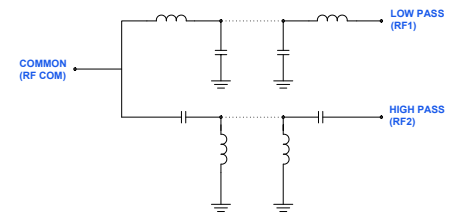
PRODUCT OVERVIEW

Mini-Circuits' Suspended Substrate Stripline filters offer low insertion loss combined with wide stopband, good power handling & temperature stability, small form factor with rugged build ideal for harsh operating environments making them an excellent choice for wideband instruments and systems like ECM, ECCM, ELINT and ultrabroadband receivers. Low pass, high pass, band pass, diplexer and multiplexer designs can be realized with this technology with passband, stopband up to 40GHz and stopband width greater than 6x cutoff frequency.



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter		Function (Port)	Frequency (MHz)	Min.	Typ.	Max.	Unit
Passband	Insertion Loss	Low Pass (RF COM-RF1)	DC -2600	—	0.7	1.6	dB
		High Pass (RF COM-RF2)	3600 - 8000	—	0.7	1.8	
	Return Loss	Low Pass (RF1)	DC - 2600	—	9	—	dB
		High Pass (RF2)	3600 - 8000	—	9	—	
		Common (RF COM)	DC - 2600 3600 - 8000	— —	9 9	— —	
Stopband Rejection		Low Pass (RF COM-RF1)	3600 - 8000	60	80	—	dB
		High Pass (RF COM-RF2)	DC - 2600	50	75	—	

1. RF COM & (RF1, RF2) can be used as input / output. See S-Parameters for actual performance.

ABSOLUTE MAXIMUM RATINGS²

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Input Power (RF COM - RF1) ³	20 W @ +25°C
Input Power (RF COM - RF2) ³	20 W @ +25°C

2. Permanent damage may occur if any of these limits are exceeded.

3. Power rating applies only to signals within the passband.

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REV. OR
ECO-027795
ZDSS-2R6G3R6GS+
EDU5198
URJ
251120

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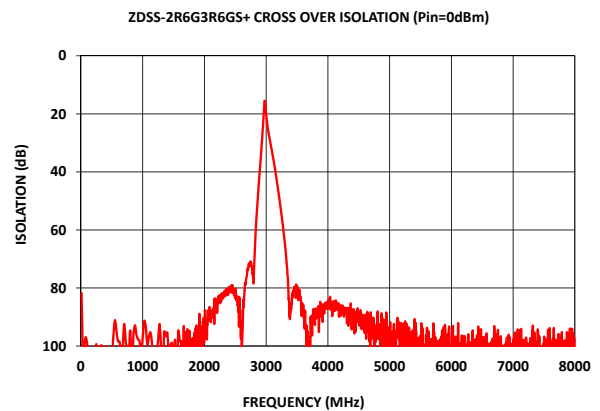
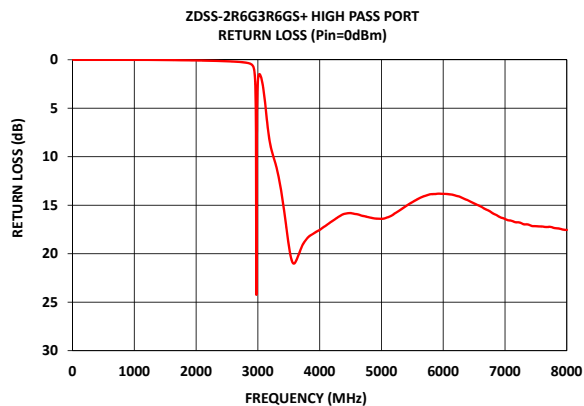
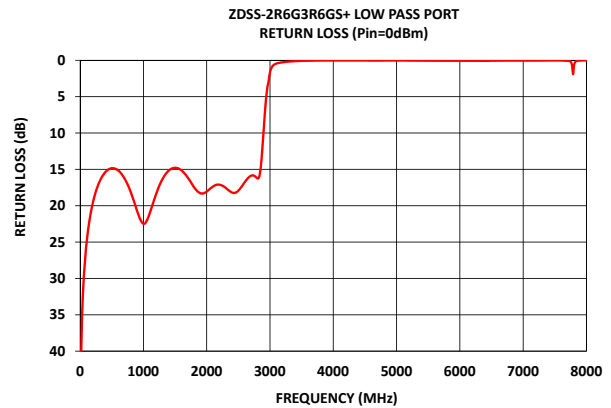
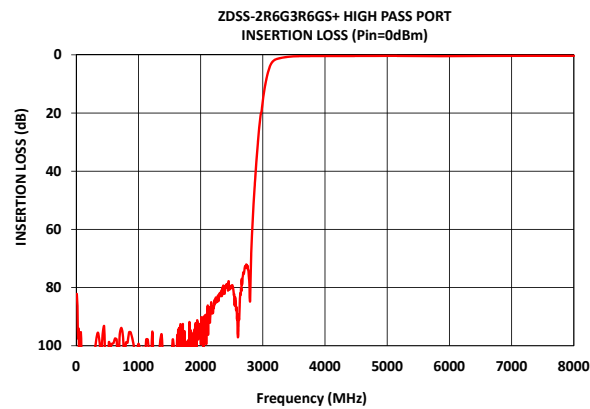
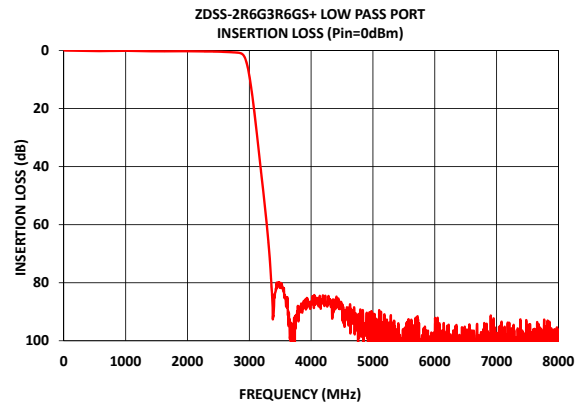
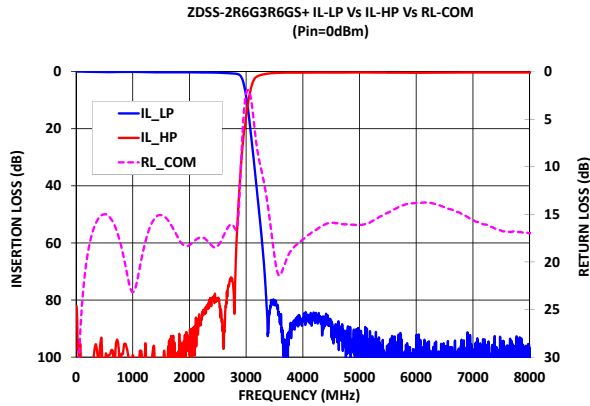
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TYPICAL PERFORMANCE GRAPHS AT +25°C





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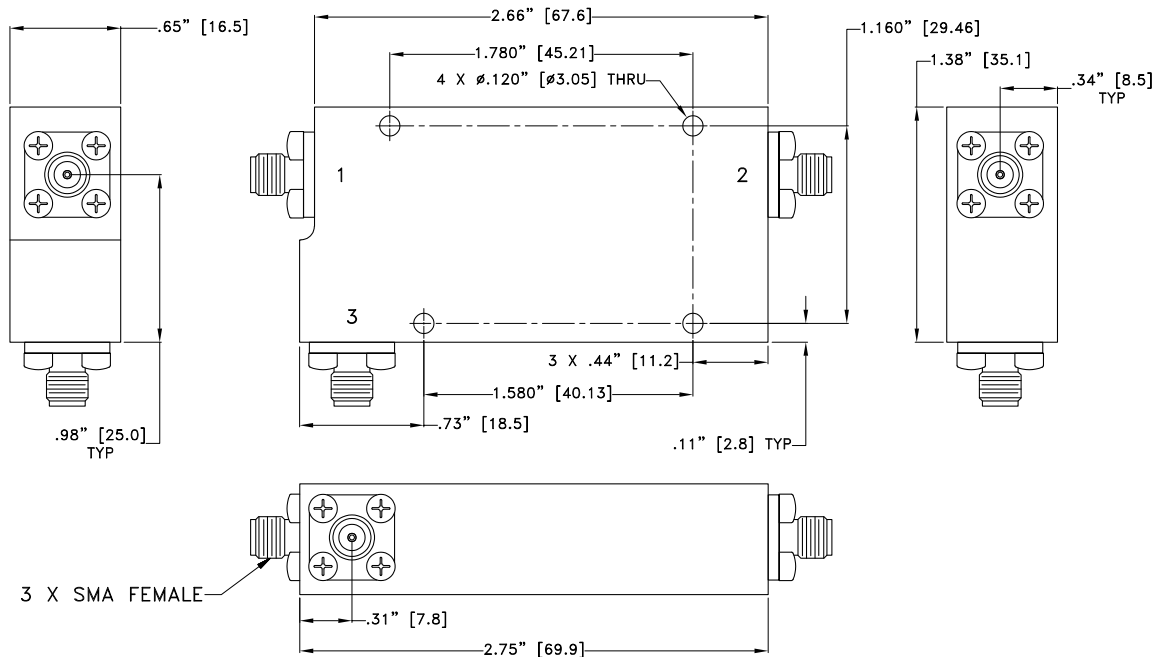
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CONNECTOR DESCRIPTION

Function	Marking on Unit	Connector
RF COM	1	SMA Female
RF1	2	SMA Female
RF2	3	SMA Female

CASE STYLE DRAWING



UNIT WEIGHT: 150 GRAMS

DIMENSIONS ARE IN INCHES [MM]. TOLERANCES: 2 PL. ± 0.06 [1.52]; 3 PL. ± 0.015 [0.381]

PRODUCT MARKING*: ZDSS-2R6G3R6GS+

*Marking may contain other features or characters for internal lot control.





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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S3P Files) Data Set (.zip file)
Case Style	BBA3697
RoHS Status	Compliant
Environmental Ratings	ENV46

NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

