



8-WAY

# Active Splitter

# ZT-338

Mini-Circuits

50Ω 950 to 2150 MHz Rack-Mount SMA Female

### THE BIG DEAL

- 8-way power division with no path loss
- Convenient rack-mountable chassis
- AC mains power supply

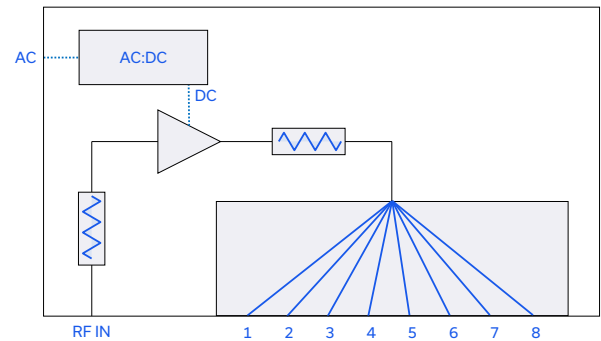


Generic photo used for illustration purposes only

### APPLICATIONS

- Benchtop and rack-mounted automated test systems
- GNSS (GPS, Galileo, GLONASS) signal distribution
- Test instrumentation time synchronization
- L-band satcom (satellite communications)

### FUNCTIONAL BLOCK DIAGRAM



### PRODUCT OVERVIEW

Mini-Circuits' ZT-338 is an 8-way active power splitter covering L-band 950-2150 MHz, ideally suited for satcom and GNSS (GPS, GLONASS & Galileo) signal distribution applications. The splitter is powered from the AC mains input to give unity gain from input to each output. The system is housed in a compact 19-inch rack chassis, 1U height, with all RF ports (SMA female) on the front panel.

### ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Conditions	Min.	Typ.	Max.	Units
Frequency Range		950		2150	MHz
Gain		-2	0.5		dB
Amplitude Unbalance			0.5		dB
Phase Unbalance			10		°
Isolation	Between ports 1-8	18	30		dB
Reverse Isolation	Reverse path loss from 1-8 to RF IN		35		dB
Return Loss			22		dB
Input P1dB <sup>1</sup>	RF IN		+8		dBm

1. Input power level at which the internal amplifier would typically be expected to reach its output power 1 dB compression point. It is recommended to operate below this input level for linear performance.





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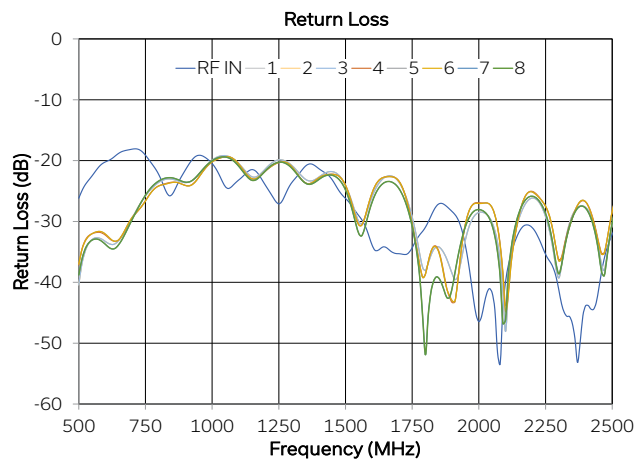
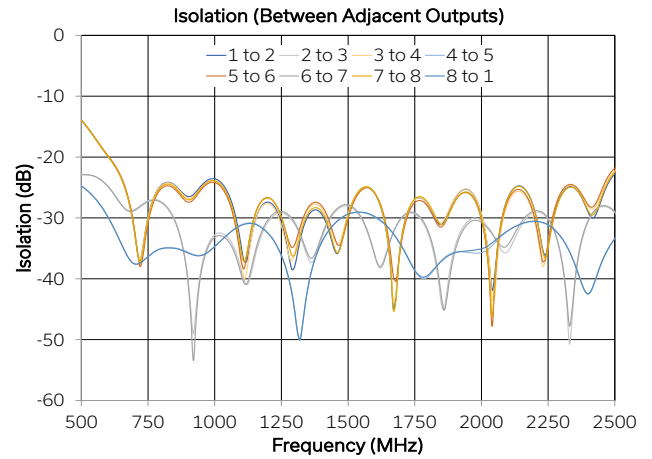
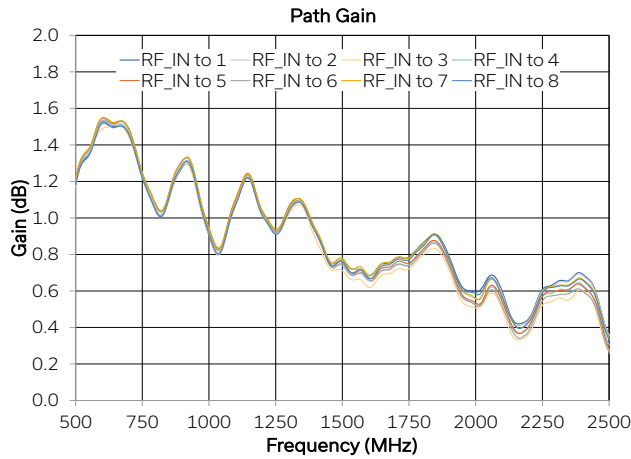
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## TYPICAL PERFORMANCE GRAPHS





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### ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions	Limits	Units
Temperature	Operating	0 to +50	°C
	Storage	-20 to +60	
Input Power (No Damage)		+15	dBm

Permanent damage may occur if any of these limits are exceeded. Operating in the range between operating power limits and absolute maximum ratings for extended periods of time may result in reduced life and reliability.

### POWER SUPPLY

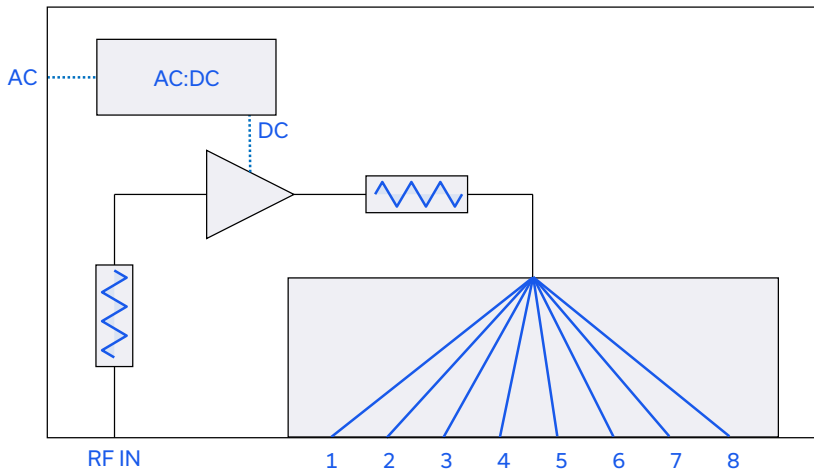
Power Supply	AC mains input: 100-240 V, 50 / 60 Hz
Fuse	2A, 250V rating
Power Consumption	150W maximum

### CONNECTIONS

Port	Connector
RF IN & 1-8	SMA female
AC Input	IEC C14 inlet

RF IN = Input port  
1-8 = Output port

### FUNCTIONAL BLOCK DIAGRAM







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# Active Splitter

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




50Ω 900 to 2250 MHz Rack-Mount SMA Female

DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE [CLICK HERE](#)

Case Style	NW1864	
Environmental Rating	ENV55	
Regulatory Compliance	<p>Refer to our website for compliance methodologies and qualifications</p> 	<a href="http://www.minicircuits.com/quality/environmental_introduction.html">www.minicircuits.com/quality/environmental_introduction.html</a>

Contact Us: [testsolutions@minicircuits.com](mailto:testsolutions@minicircuits.com)

Included Accessories	Part Number	Description
	CBL-3W-xx	AC power cord (IEC C13 connector to local plug) Select one option from the list below. Please contact Please contact <a href="mailto:testsolutions@minicircuits.com">testsolutions@minicircuits.com</a> if your regions is not listed.
	HT-4-SMA	SMA connector wrench (4" length)

AC Power Cord Options	Part Number	Description
	CBL-3W-US	USA NEMA 5-15 plug (type B) to IEC C13 connector
	CBL-3W-EU	Europe CEE 7/7 plug (type E/F) to IEC C13 connector
	CBL-3W-UK	UK BS-1363 plug (type G) to IEC C13 connector
	CBL-3W-AU	Australia & China AS/NZS 3112 plug (type I) to IEC C13 connector
	CBL-3W-IL	Israel SI-32 plug (type H) to IEC C13 connector

- 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-Circuit's 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)