

Wideband, DC Pass

Directional Coupler ZCDC20-02263S+

50Ω 20dB Up to 20W 2 to 26.5 GHz

The Big Deal

- Wideband, 2 to 26.5 GHz
- Excellent Coupling Flatness, ± 0.5 dB typ.
- Power Handling up to 20W



CASE STYLE: HT2627

Product Overview

The Mini-Circuits ZCDC20-02263S+ wideband directional coupler offers exceptional performance operating over 2 to 26.5 GHz. This coupler has excellent coupling flatness, good directivity, and power handling. It is ideal for lab testing applications as well as for power monitoring over wide bands, among other applications.

Key Features

Feature	Advantages
Wide bandwidth	With a bandwidth spanning 2 to 26.5 GHz, ZCDC20-02263S+ coupler is ideal for most lab testing applications, avoiding the need to switch components for different frequency bands.
Excellent Directivity • 18 dB typ. up to 26.5 GHz	High directivity allows sampling of input powers with minimal detrimental effects due to output mismatches.
Excellent coupling flatness, ± 0.5 dB typ.	Excellent coupling flatness over the entire frequency range eliminates the need for compensation circuits in most cases.
Good Return Loss (IN & OUT) • 17 dB typ. up to 26.5 GHz	Good return loss minimizes undesired reflections and resulting amplitude ripple.

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



Wideband, DC Pass Directional Coupler

50Ω 20dB Up to 20W 2 to 26.5 GHz

ZCDC20-02263S+



CASE STYLE: HT2627

Connectors	Model
SMA	ZCDC20-02263S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Supplied Termination*	1W
DC Current	0.6A

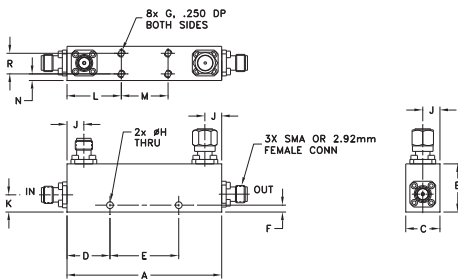
* up to 25°C, derates linearly to 325mW at 100°C.

Permanent damage may occur if any of these limits are exceeded

Coaxial Connections

INPUT	IN
OUTPUT	OUT
COUPLED	CPL
TERMINATION (50Ω) INCLUDED	—

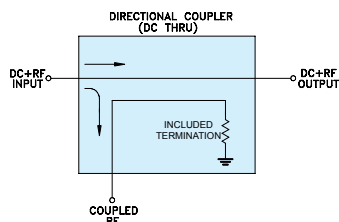
Outline Drawing



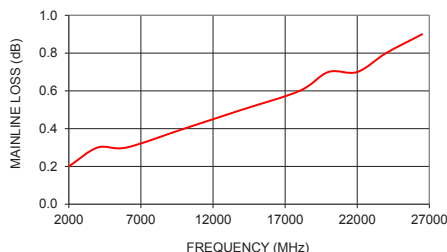
Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
2.25	0.7	0.50	0.63	1.00	0.10	#4-40	0.1
57.15	17.78	12.70	16.00	25.40	2.54	JNC-2B	2.54
J	K	L	M	N	R		wt
0.25	0.25	0.79	0.68	0.1	0.3		grams
6.35	6.35	20.07	17.27	2.54	7.62		80

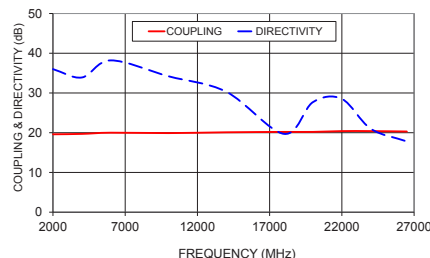
Electrical Schematic



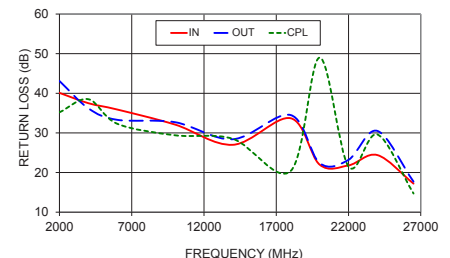
ZCDC20-02263-S+
MAINLINE LOSS



ZCDC20-02263-S+
COUPLING & DIRECTIVITY



ZCDC20-02263-S+
RETURN LOSS



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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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