



Engineered To *Outperform*



Duplexers

Market-Driven ■ Innovative ■ Customer-Focused

This brochure has been prepared to share our capabilities, all specifications within this document are typical.
For your custom specification we encourage you to inquire with our sales representatives.
sales@sdptelecom.com

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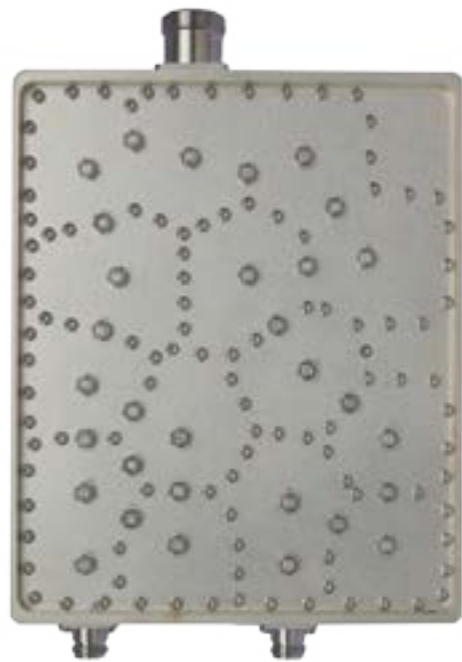
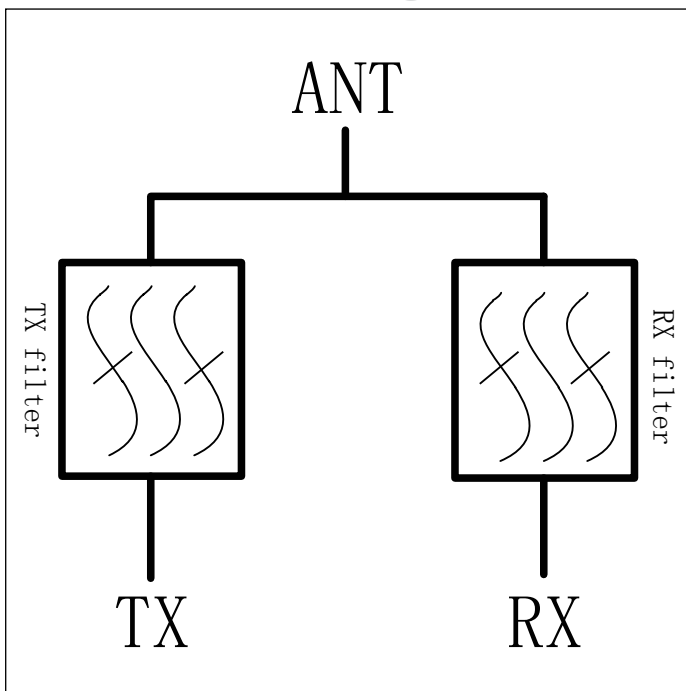
Introduction

Key features of SDP's Duplexers

- Good isolation preventing receiver desensitization
- Suitable for indoor applications, or outdoor upon request
- Built-in DC stop between all ports
- Low loss
- High power
- Low PIM

SDP duplexers are designed to combine/split Tx and Rx signals from a common antenna. This portfolio is assembled to showcase our custom designed duplexers as an off the shelf solution for the commonly used standard frequency bands, maintaining the critical specifications required to operate your system.

Block Diagram



Low Power Duplexer

Features

- Isolation 50 dB
- Power handling 50 W
- Operating temperature -40 to 65°C
- Application indoor (IP64)
- Connector type N female (DIN 7/16 available upon request)
- Mounting, mounting holes

900 MHz Duplexer (DPX-880-960B000)

	RX	TX
Frequency band	890-915 MHz	935-960 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 1.2 Kg	
Dimension	170 x 118 x 42 mm	



1800 MHz Duplexer (DPX-1710-1880B000)

	RX	TX
Frequency band	1710-1785 MHz	1805-1880 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 1.0 Kg	
Dimension	211 x 67 x 41 mm	



2100 MHz Duplexer (DPX-1920-2170B000)

	RX	TX
Frequency band	1920-1970 MHz	2110-2170 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 0.6 Kg	
Dimension	127 x 45 x 37 mm	



2600 MHz Duplexer (DPX-2500-2690B000)

	RX	TX
Frequency band	2500-2570 MHz	2620-2690 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 0.6 Kg	
Dimension	95.5 x 59 x 32 mm	



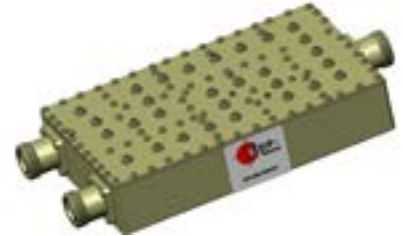
Low PIM High Isolation Duplexer

Features

- Isolation > 80 dB
- Power handling < 200 W
- Low IM3 @2x20watt < -160 dBc with DIN 7/16 connector
- Operating temperature -40 to 65°C
- Application indoor IP64 / outdoor IP67
- Connector type 7/16 DIN female (N-type or 4.1/9.5 Mini-DIN on request)
- Mounting, mounting holes or pole mount

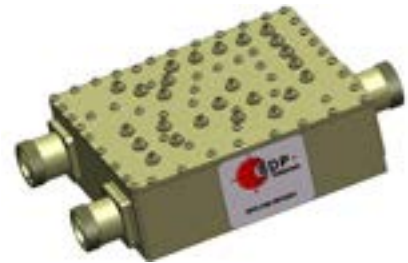
700 MHz Lower Duplexer (DPX-698-746A001)

	RX	TX
Frequency band	698-716 MHz	728-746 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.5 Kg	
Dimension	234 x 142 x 52 mm (without connector)	



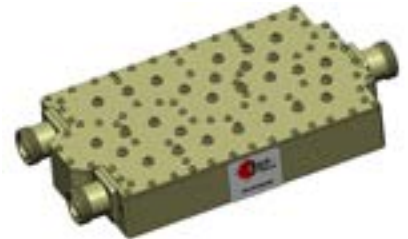
700 MHz Upper C block Duplexer (DPX-746-787A001)

	RX	TX
Frequency band	776-787 MHz	746-757 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2 Kg	
Dimension	162 x 138 x 57 mm (without connector)	



800 MHz Duplexer (DPX-791-862A000)

	RX	TX
Frequency band	832-862 MHz	791-821 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.2 Kg	
Dimension	245 x 146 x 46 mm (without connector)	



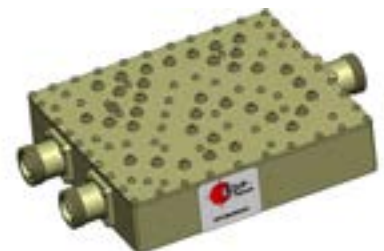
850 MHz Duplexer (DPX-824-894A001)

	RX	TX
Frequency band	824-849 MHz	869-894 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 1.5 Kg	
Dimension	112 x 124 x 52 mm (without connector)	

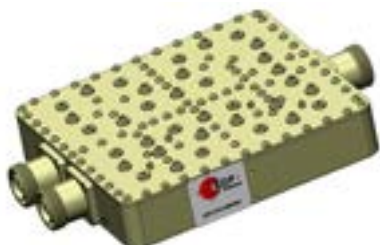


900 MHz Duplexer (DPX-880-960A001)

	RX	TX
Frequency band	880-915 MHz	925-960 MHz
Insertion Loss	0.8 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.0 Kg	
Dimension	190 x 168 x 49 mm (without connector)	



Low PIM High Isolation Duplexers



1800 MHz Duplexer (DPX-1710-1880A001)		
	RX	TX
Frequency band	1710-1785 MHz	1805-1880 MHz
insertion loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.0 Kg	
Dimension	184.5 x 166 x 42 mm (without connector)	



1900 MHz Duplexer (DPX-1850-1990A000)		
	RX	TX
Frequency band	1850-1910 MHz	1930-1990 MHz
insertion loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.0 Kg	
Dimension	234 x 189 x 42 mm (without connector)	



AWS Duplexer (DPX-1710-2155A000)		
	RX	TX
Frequency band	1710-1755 MHz	2110-2155 MHz
Insertion Loss	0.5 dB	0.5 dB
VSWR	1.25	1.25
Weight	< 0.6 Kg	
Dimension	90 x 72 x 35 mm (Without Connector)	



2100 MHz Duplexer (DPX-1920-2170A002)		
	RX	TX
Frequency band	1920-1980 MHz	2110-2170 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.3 Kg	
Dimension	174 x 195 x 50 mm (without connector)	



2600 MHz Duplexer (DPX-2500-2690A002)		
	RX	TX
Frequency band	2500-2570 MHz	2620-2690 MHz
Insertion Loss	1.0 dB	1.0 dB
VSWR	1.25	1.25
Weight	< 2.0 Kg	
Dimension	189 x 174 x 45 mm (Without Connector)	

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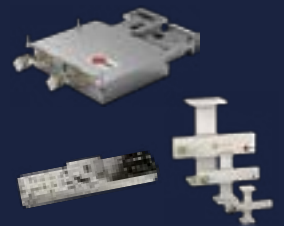
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Radio Link Waveguide



In-Building

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DPX (16-05) Rev E