

WSD-00324 - 1900 MHz PCS Band BTS Macro-cell Duplexer

◆ Features:

- Low Insertion Loss
- Good Power Handling
- Excellent Rejections

◆ Specifications:

Receiving path (Ant. to Rx, including coupler)

Passband:	1905 to 1910 MHz
Insertion Loss:	1.2 dB max.
Passband Return Loss:	17 dB min.
Passband Ripple:	<0.8 dB
Rejections:	
@ DC to 1890 MHz	>40 dB
@ 1920 to 1980 MHz	>40 dB
@ 1980 to 1990 MHz	>90 dB
@ 1990 to 6000 MHz	>60 dB
@ 6000 to 127500 MHz	>20 dB

Transmission Path (Tx. to Ant., including coupler):

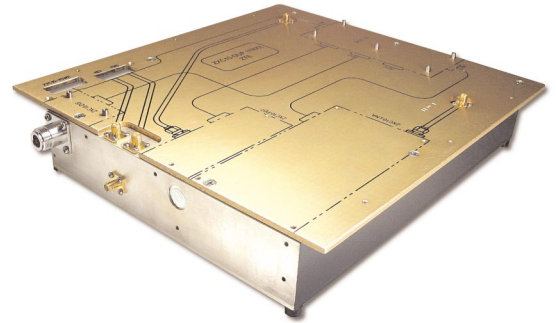
Passband:	1985 to 1990 MHz
Insertion Loss:	1.4 dB max. over temp
Passband Return Loss (Ant. & Tx. ports):	17 dB min.
Passband ripple:	<0.8 dB
Rejections:	
@ DC to 1850 MHz	>50 dB
@ 1850 to 1910 MHz	>100 dB
@ 1910 to 1975 MHz	>60 dB
@ 1975 to 1980 MHz (over temp.)	>25 dB
@ 1995 to 2010 MHz	>30 dB
@ 2010 to 2400 MHz	>60 dB
@ 2400 to 6000 MHz	>50 dB
@ 6000 to 12750 Mhz	>20 dB

Connectors:

Ant. :	N-F
Rx & Tx. :	SMA-F
Impedance (all ports):	50 ohm

◆ Applications:

- Duplexer used in 1900MHz PCS Band BTS macro-cell



Coupler:

Coupling value @ 25°C: 30 dB +/- 1 dB @
RTE* to Rx. (1850 to 1910 MHz)
RTE* to Tx. (1930 to 1990 MHz)
FWD to Tx. (1930 to 1990 MHz)
RTE* to Ant. (1930 to 1990 MHz)

*port for FWD & REV

Isolations:

FWD vs. Ant. (1930 to 1990 MHz)	50 dB min.
REV vs. Tx. (1930 to 1990 MHz)	55 dB min.

Return Loss:

@FWD, REV, RTE ports	19 dB min.
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Connectors:

Ant. :	N-F
Rx & Tx. :	SMA-F
Impedance (all ports):	50 ohm

PIM:

@ 2 x 43 dBm	120 dBm max.
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Environmental:

Operating temperature:	-5 to 60°C
Operating humidity:	20 to 80%

Power Handling:

CW:	≥100W
Peak Instantaneous:	≥1000W

Dimensions:

255mm x 210mm x 34mm (excluding mounting plate)

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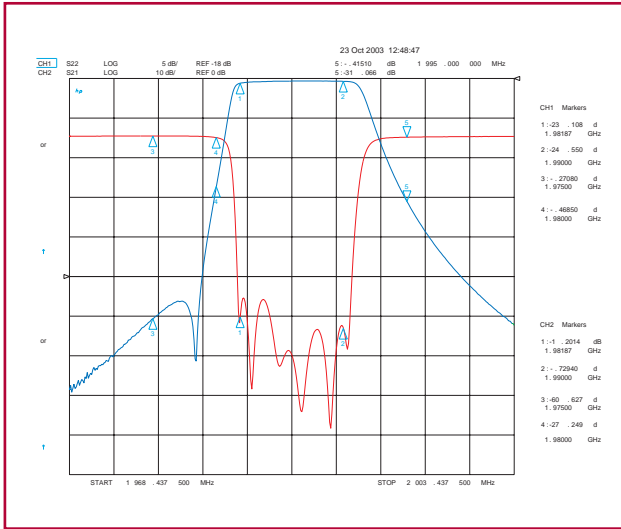
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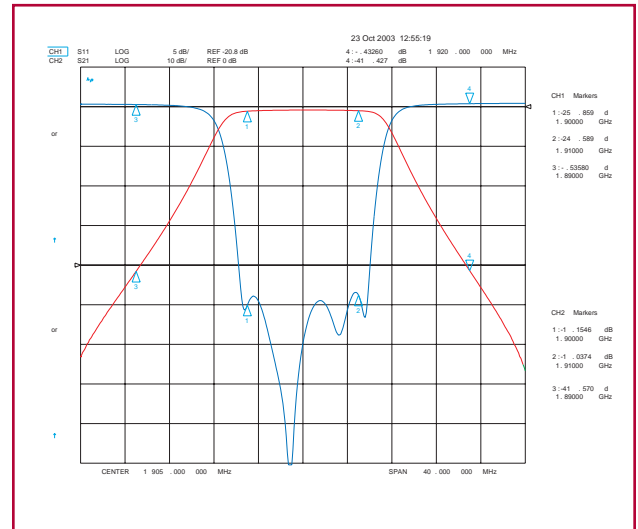
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Stopband / VSWR



Passband / VSWR



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