

VHF/UHF Base Station Duplexers

PD526 Series

These Celwave units use a total of six pass-reject dual-notch resonators with three resonators per channel as the normal arrangement. They are suitable for many applications other than duplexing and their dual-notch circuitry provides a pseudo band pass characteristic for high Tx-Rx isolation. These units are available with reversible mounting brackets to allow flush rack mounting with connections in the rear. Specify PD526-4-SR or PD526-5-SR. Interconnecting is exclusively RG214/U cable.

- **High isolation**

Minimizes interference.

- **Temperature compensated**

Assures consistent performance across temperature and power range.

- **Low insertion loss**

Maximizes effective radiated power.



PD526 Series

Order Information

Item Number	Frequency Range MHz
PD526-WB-SR-1 (@ 5MHz sp)	406 - 440
PD526-WB-SR-1 (@ 10MHz sp)	406 - 440
PD526-WB-1 (@ 10MHz sp)	406 - 440
PD526-4-SR-1	406 - 470
PD526-4-1	406 - 470
PD526-WB-SR-2 (@ 10MHz sp)	435 - 470
PD526-WB-2 (@ 10MHz sp)	435 - 470
PD526-4-SR-2	435 - 470
PD526-4-2	435 - 470
PD526-5-SR-1	470 - 490
PD526-5-1	470 - 490
PD526-5-SR-2	490 - 512
PD526-5-2	490 - 512

VHF/UHF Base Station Duplexers

ELECTRICAL SPECIFICATIONS	PD526-WB-SR-1 (@ 5MHz sp)	PD526-WB-SR-1 (@ 10MHz sp)	PD526-WB-SR-2 (@ 10MHz sp)	PD526-WB-1 (@ 10MHz sp)
Frequency Range - MHz	406-440	406-440	435-470	406-440
Frequency Spacing, Min. - MHz	5	10	10	10
Tx Bandwidth - MHz	1.2 (Note 1)	1.2 (Note 1)	1.2 (Note 1)	1.2 (Note 1)
Rx Bandwidth - MHz	1.2 (Note 1)	1.2 (Note 1)	1.2 (Note 1)	1.2 (Note 1)
Continuous Power Input, Max. - Watts	150	200	200	200
Insertion Loss, Tx - Ant. - dB	1.2	1.0	1.0	1.0
Insertion Loss, Rx - Ant. - dB	1.2	1.0	1.0	1.0
Tx Noise Suppression at Rx Frequency - dB	80	100	100	100
Rx Isolation at at Tx Frequency - dB	80	100	100	100
VSWR, Max. (50 ohms)	1.3:1	1.3:1	1.3:1	1.3:1
Connectors - Ant. Port	N-female	N-female	N-female	N-female
- Tx Port	N-female	N-female	N-female	N-female
- Rx Port	N-female	N-female	N-female	N-female
Temperature Range - °C	-30 to +60	-30 to +60	-30 to +60	-30 to +60

MECHANICAL SPECIFICATIONS

Height - in. (mm)	5-1/4(133)	5-1/4(133)	5-1/4(133)	5-1/4(133)
Width - in. (mm)	19(483)	19(483)	19(483)	19(483)
Depth - in. (mm)	14(356)	14(356)	14(356)	14(356)
Mounts in 19" (483mm) EIA Rack (Yes/No)	Yes	Yes	Yes	Yes
Weight - lbs. (kg)	23(10.5)	23(10.5)	23(10.5)	23(10.5)

Note 1: Performance shown for the specific spacing and bandwidth listed. Consult Applications Engineering for performance at other spacings

ELECTRICAL SPECIFICATIONS	PD526-WB-2 (@ 10MHz sp)	PD526-4-SR-1	PD526-4-SR-2	PD526-4-1
Frequency Range - MHz	435-470	406-470	435-470	406-470
Frequency Spacing, Min. - MHz	10	3	3	3
Tx Bandwidth - MHz	1.2 (Note 1)	0.025	0.025	0.025
Rx Bandwidth - MHz	1.2 (Note 1)	0.025	0.025	0.025
Continuous Power Input, Max. - Watts	200	250	250	250
Insertion Loss, Tx - Ant. - dB	1.0	1.0	1.0	1.0
Insertion Loss, Rx - Ant. - dB	1.0	1.0	1.0	1.0
Tx Noise Suppression at Rx Frequency - dB	100	100	100	100
Rx Isolation at at Tx Frequency - dB	100	100	100	100
VSWR, Max. (50 ohms)	1.3:1	1.3:1	1.3:1	1.3:1
Connectors - Ant. Port	N-female	N-female	N-female	N-female
- Tx Port	N-female	N-female	N-female	N-female
- Rx Port	N-female	N-female	N-female	N-female
Temperature Range - °C	-30 to +60	-30 to +60	-30 to +60	-30 to +60

MECHANICAL SPECIFICATIONS

Height - in. (mm)	5-1/4(133)	5-1/4(133)	5-1/4(133)	5-1/4(133)
Width - in. (mm)	19(483)	19(483)	19(483)	19(483)
Depth - in. (mm)	14(356)	14(356)	14(356)	14(356)
Mounts in 19" (483mm) EIA Rack (Yes/No)	Yes	Yes	Yes	Yes
Weight - lbs. (kg)	23(10.5)	23(10.5)	23(10.5)	23(10.5)

Note 1: Performance shown for the specific spacing and bandwidth listed. Consult Applications Engineering for performance at other spacings.

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ELECTRICAL SPECIFICATIONS	PD526-4-2	PD526-5-SR-1	PD526-5-SR-2	PD526-5-1
Frequency Range - MHz	435-470	470-490	490-512	470-490
Frequency Spacing, Min. - MHz	3	3	3	3
Tx Bandwidth - MHz	0.025	0.025	0.025	0.025
Rx Bandwidth - MHz	0.025	0.025	0.025	0.025
Continuous Power Input, Max. - Watts	250	250	250	250
Insertion Loss, Tx - Ant. - dB	1.0	1.0	1.0	1.0
Insertion Loss, Rx - Ant. - dB	1.0	1.0	1.0	1.0
Tx Noise Suppression at Rx Frequency - dB	100	100	100	100
Rx Isolation at at Tx Frequency - dB	100	100	100	100
VSWR, Max. (50 ohms)	1.3:1	1.3:1	1.3:1	1.3:1
Connectors - Ant. Port	N-female	N-female	N-female	N-female
- Tx Port	N-female	N-female	N-female	N-female
- Rx Port	N-female	N-female	N-female	N-female
Temperature Range - °C	-30 to +60	-30 to +60	-30 to +60	-30 to +60

MECHANICAL SPECIFICATIONS

Height - in. (mm)	5-1/4(133)	5-1/4(133)	5-1/4(133)	5-1/4(133)
Width - in. (mm)	19(483)	19(483)	19(483)	19(483)
Depth - in. (mm)	14(356)	14(356)	14(356)	14(356)
Mounts in 19" (483mm) EIA Rack (Yes/No)	Yes	Yes	Yes	Yes
Weight - lbs. (kg)	23(10.5)	23(10.5)	23(10.5)	23(10.5)

ELECTRICAL SPECIFICATIONS

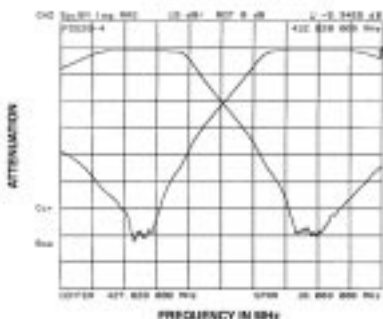
PD526-5-2

Frequency Range - MHz	490-512
Frequency Spacing, Min. - MHz	3
Tx Bandwidth - MHz	0.025
Rx Bandwidth - MHz	0.025
Continuous Power Input, Max. - Watts	250
Insertion Loss, Tx - Ant. - dB	1.0
Insertion Loss, Rx - Ant. - dB	1.0
Tx Noise Suppression at Rx Frequency - dB	100
Rx Isolation at at Tx Frequency - dB	100
VSWR, Max. (50 ohms)	1.3:1
Connectors - Ant. Port	N-female
- Tx Port	N-female
- Rx Port	N-female
Temperature Range - °C	-30 to +60

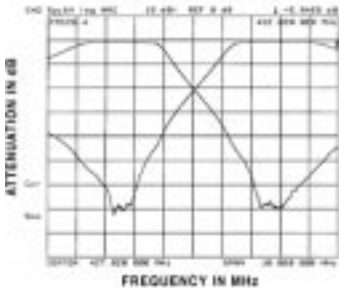
MECHANICAL SPECIFICATIONS

Height - in. (mm)	5-1/4(133)
Width - in. (mm)	19(483)
Depth - in. (mm)	14(356)
Mounts in 19" (483mm) EIA Rack (Yes/No)	Yes
Weight - lbs. (kg)	23(10.5)

PD526-4 RESPONSE CURVES (Typical)
5 MHz SPACING (435-470 MHz)



PD526-5 RESPONSE CURVES (Typical)
5 MHz SPACING (470-490 MHz)



PD526 RESPONSE CURVES (Typical)
3 MHz SPACING (490-512 MHz)

