

# VHF/UHF Base Station Duplexers

## PD1157

These units incorporate a unique loop structure which provides for a minimum number of cable connector joints and the most simple harnessing arrangement possible. Their dual notch circuitry provides a pseudo band pass characteristic resulting in high Tx-Rx isolation at frequencies between and adjacent to the operating frequencies. The PD1157 operates in the three quarter-wave mode to allow closer Tx-Rx spacing while maintaining excellent isolation and insertion loss.

- **Low loss**

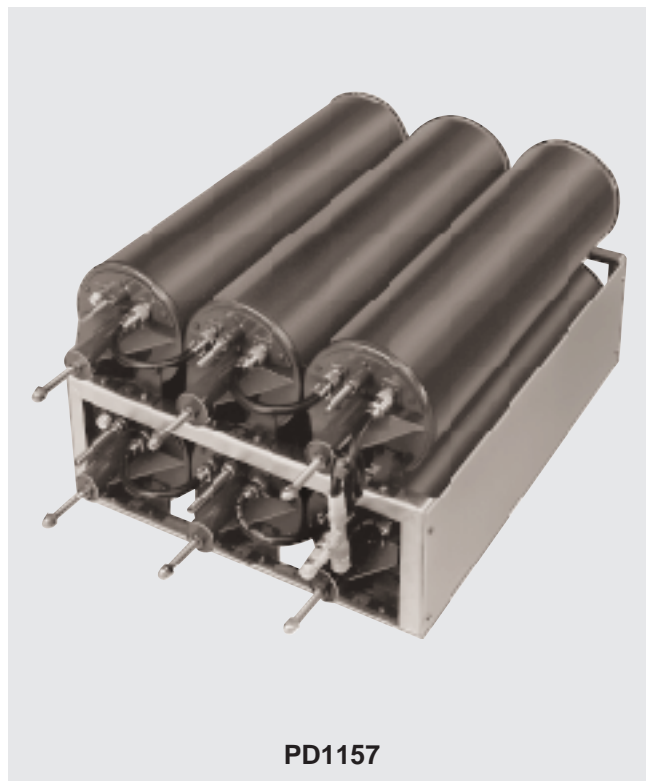
Maximizes system performance.

- **High isolation**

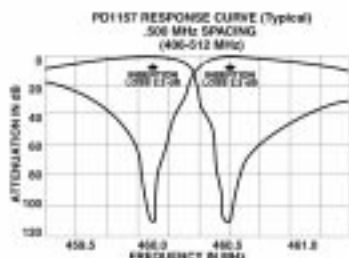
Minimizes interference.

- **Fully temperature compensated**

Assures consistent performance across temperature and power range.



PD1157



### Order Information

Item Number	Frequency Range MHz
PD1157	406 - 512

### ELECTRICAL SPECIFICATIONS

### PD1157

Frequency Range - MHz	406-512
Frequency Spacing, Min. - MHz	0.5
Tx Bandwidth - MHz	0.025
Rx Bandwidth - MHz	0.025
Continuous Power Input, Max. - Watts	200
Insertion Loss, Tx - Ant. - dB	2.2
Insertion Loss, Rx - Ant. - dB	2.2
Tx Noise Suppression at Rx Freq. - dB	80
Rx Isolation at Tx Frequency - dB	80
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)	13 (330)
Width - in. (mm)	19-1/4(489)
Depth - in. (mm)	35(889)
Mounts in 19" (483mm) EIA Rack	No
Weight - lbs. (kg)	60(27)

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