

DBS STACKING

SITUATION

DBS signals from (2) 950 to 1450 MHz polarities are required at multiple locations connected via a single coax cable. Receivers at the end of the coax need to select one of the two in the 950 to 1450 MHz band.

SOLUTION

Models D575, D575P & D575D select on of the two polarities for output in the 950 to 1450 MHz band based on control voltages from a receiver.

RELATED CONSIDERATIONS

A receiver voltage of 18V selects the stacked transponders from the 1450 to 2050 MHz band.

A receiver voltage of 13V selects the un-stacked transponders from the 950 to 1450 MHz band. The stacked band is filtered from passing to the output.

FEATURES

- Input bandwidth..... 15 to 2150 MHz
- Wide input window..... -35 to -58 dBm
- DC Blocking D575
- DC passing RF Out to DBS IN..... D575P
- DBS amplification..... 8 dB

APPLICATION NOTES

Model D575 or D575P de-stackers may be used to select one of two polarities stacked on a single coax input.

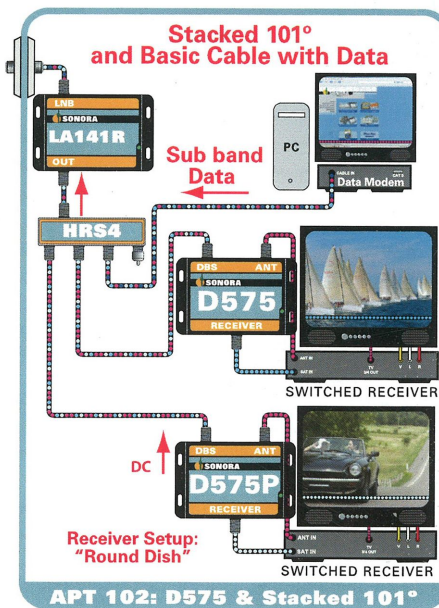
Model LA141R is used when the signal levels are low when reaching the apartment. Both CATV and DBS signals are amplified.

DC voltage generated by the receiver connected to the D575P is passed to power the LA141R amplifier.

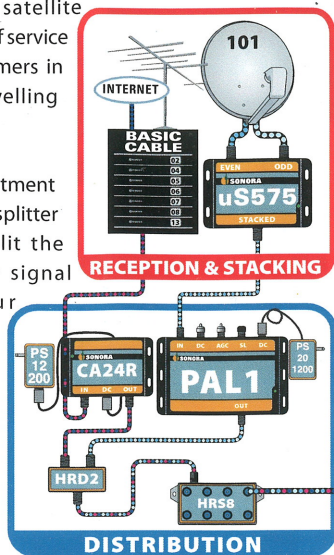


DESCRIPTION

Indoor / Outdoor 54 to 2150 MHz de-stacker and off-air diplexer.



Within the apartment a model **HRS4** splitter is used to split the stacked 101° signal to the four receivers.



SPECIFICATIONS

Specifications..... ³⁰	Typical	OC Limit
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Gain

5 to 800 MHz	-3 dB	-7 dB
950 -1450 MHz	2 dB	0 dB
1525 to 2025 MHz	8 dB	6 dB

Input Window -35 dBm to -58 dBm

Band Switch Voltage $> 14\text{ Vdc}$

Pass band Flatness

Any 24 MHz band	0.2 dB	0.5 dB
950 to 1450 MHz.....	0.2 dB	0.5 dB

Input Return Loss

5-750 MHz.....	13 dB	11 dB
950-2025 MHz	12 dB	10 dB

Output Return Loss

5 -750 MHz.....	13 dB	11 dB
950 -1450 MHz	10 dB	9 dB

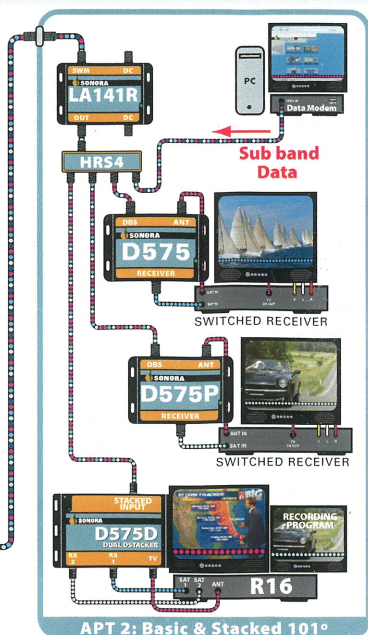
LO Frequency 575 MHz ± 30 kHz

450 to 2050 Rejection		
1450 to 1695 MHz	30 dB	27 dB
1700 to 2025 MHz	25 dB	20 dB

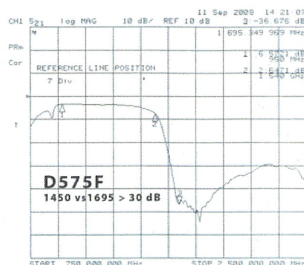
Environmental Specifications

Operating Environment: Indoor/Outdoor
Ambient Temperature -30° C to +70°C

DBS STACKING



APT 2: Basic & Stacked 101%



Power Specifications

Voltage 11 to 18 VDC

CurrentD575: 90 mA, D575D:180 mA

Mechanical SpecificationsD575 & D575P

Dimensions.....4" x 3.5" x 7/8"

Weight 0.5 lb (0.2 kg)

Master Carton (44 units) 11" x 9" x 9"

Master Carton Weight.....21 lb. (9.5 kg)

Mechanical SpecificationsD575D

Dimensions 7.5" x 4.8" x 7/8"

Weight 1 lb (0.45 kg)

Master Carton QTY (45 units)

Master Carton Size 19" x 15" x 6"

Master Carton Weight..... 46 lb. (20.9 kg)