

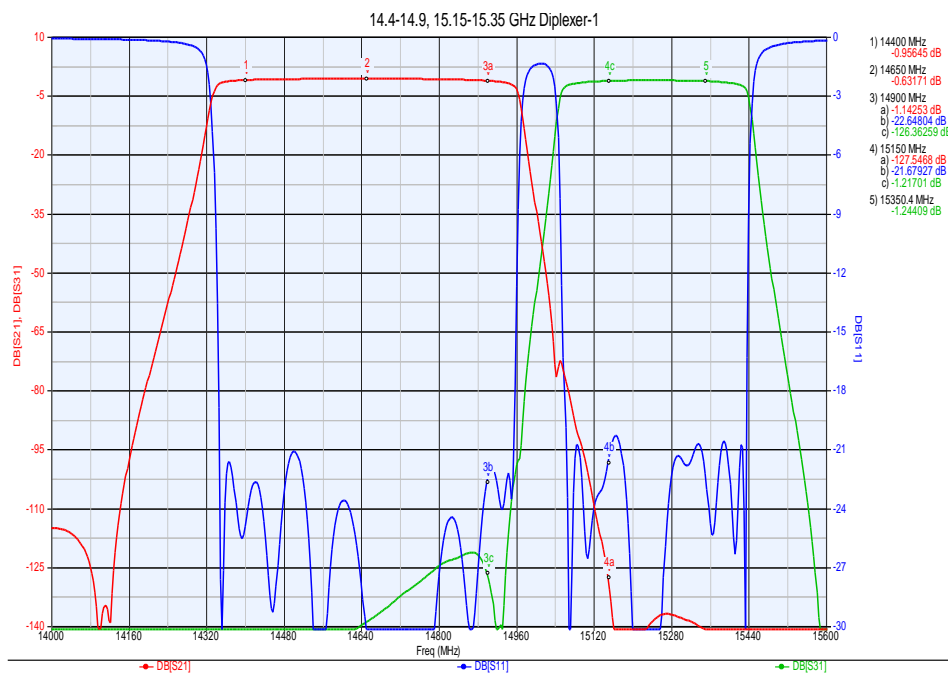
# Reactel, Incorporated

Reacting First to All Your Filter Needs.

## Common Data Link Cavity Diplexer

### 2DP3-14.65G/15.25G-X500/X200S11

This unit is specifically designed for use in systems utilizing the Tactical Common Data Link. We have designed a number of variants of this unit with differing attenuation specifications, sizes and connectors. Please contact us for this or any of our other products.



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Picture shown above may not be an actual representation of the unit described.

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## Common Data Link Cavity Diplexer

### Specifications

|                       |  |
|-----------------------|--|
| Channel 1             | Passband = 14.4 – 14.9 GHz, minimum<br>Insertion Loss $\leq$ 1.5 dB @ Passband<br>VSWR $\leq$ 1.5:1 @ Passband<br>$\geq$ 45 dB @ 8.5 – 12.0 GHz<br>$\geq$ 80 dB @ 13.32 – 14.15 GHz<br>$\geq$ 110 dB @ 15.15 – 15.35 GHz<br>Group Delay Variation $\leq$ 3.5 nS @ Passband |
| Channel 2             | 15.15 – 15.35 GHz, minimum<br>Insertion Loss $\leq$ 1.5 dB @ Passband<br>VSWR $\leq$ 1.5:1 @ Passband<br>$\geq$ 45 dB @ 8.5 – 12.0 GHz<br>$\geq$ 80 dB @ 15.65 – 15.95 GHz<br>$\geq$ 110 dB @ 14.4 – 14.9 GHz<br>Group Delay Variation $\leq$ 2.5 nS @ Passband            |
| Power                 | +40 dBm  |
| Operating Temperature | -40° to +85° C   |
| Operating Altitude    | 40,000 feet  |
| Connectors            | SMA Female, all ports  |
| Size                  | 0.5" high x 2.75" wide x 3.75" long, nominal<br>excluding connectors   |