The **D1 Series** features SMA connectors and a frequency range of DC to 22 GHz.

This series is available with fail-safe, latching self-cut-off, or pulse latching functions.

**RF Impedance:** 50 ohms nominal  
**Temperature Range:** -35°C to +85°C ambient  
**Operating Life:** 1,000,000 cycles min.  
**Switching Time:** 15 mSec max.  
**Switching Sequence:** Break Before Make  
**Environmental:** Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

### SPECIFICATIONS

<table>
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<tr>
<th>Frequency</th>
<th>VSWR (max.)</th>
<th>Insertion Loss (dB max.)</th>
<th>Isolation (dB min.)</th>
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<td>1.20</td>
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<td>8-12.4 GHz</td>
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<td>12.4-18 GHz</td>
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<td>18-22 GHz</td>
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### AVAILABLE OPTIONS

**OPTION 2**  
**RF CONNECTORS**  
4 - SMA  

**OPTION 3**  
**TERMINALS**  
1 - Solder  
2 - 6 Vdc +/- 10%  
3 - 12 Vdc +/- 10%  
4 - 24-30 Vdc  
5 - 48 Vdc +/- 10%  
6 - 110 Vac +/- 10%  
7 - 12-15 Vdc  
8 - 18-20 Vdc  
9 - 20-24 Vdc  

**OPTION 4**  
**VOLTAGE**  
1 - 6 Vdc +/- 10%  
2 - 12 Vdc +/- 10%  
3 - 24-30 Vdc  
4 - 48 Vdc +/- 10%  
5 - 110 Vac +/- 10%  

**OPTION 5**  
**ACTUATOR**  
6 - Fail-safe  
7 - Latching Self-Cut-Off  
8 - Pulse Latching  
9 - Normally Open  

**OPTION 6**  
**FREQUENCY**  
5 - DC to 22 GHz  

**OPTION 7**  
**POLARITY**  
0 - Not Applicable  
1 - Standard  
2 - Indicators  
3 - Diodes, Indicators  
4 - Standard  
5 - TTL (High)  
6 - TTL (Low)  
7 - Standard  
8 - Diodes  
9 - Standard  
10 - Positive Common  
11 - Negative Common  

**OPTION 8**  
**SPECIAL OPTIONS**  
12 - Standard  
13 - Diodes  
14 - Standard  
15 - Diodes, Indicators  
16 - Standard  
17 - Diodes, Indicators  
18 - Standard  
19 - Diodes  
20 - Standard  
21 - Indicators  
22 - Diodes, Indicators  
23 - Standard  
24 - Indicators  
25 - Diodes, Indicators  
26 - Standard  
27 - Diodes  
28 - Standard  
29 - Indicators  
30 - Diodes, Indicators  
31 - Standard  
32 - Diodes  
33 - Standard  
34 - Indicators  
35 - Diodes, Indicators  
36 - Standard  
37 - Diodes  
38 - Standard  
39 - Indicators  
40 - Diodes, Indicators

For more specifications and options, please visit Ducommun RF Products online at www.ducommun.com or contact us at 310.513.7200. All specifications are subject to change without notice.
### DC TERMINAL FUNCTION

#### FAILSAFE

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### SCHEMATICS

Pages 139-143

**FIG.** 3 3 4 3 3 4 15 16 9 10 9 10 15 16 21 21 22 21 21 22

**OUTLINE DRAWING DIMENSION “A”**

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### TOP VIEW

![Top View Diagram]

### FRONT VIEW

![Front View Diagram]

### SIDE VIEW

![Side View Diagram]

---

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