

## DBS Standard Communication Band Amplifiers

**2.0-2.5GHz, 2.5-3.0GHz, 2.8-3.3GHz, 3.0-3.5GHz, 3.7-4.2GHz**

| DBS Standard Narrow Communication Band Amplifiers<br>without Temperature Compensation |                                        |                      |                                 |                        |                                     |                      |                                |                                   |                  |
|---------------------------------------------------------------------------------------|----------------------------------------|----------------------|---------------------------------|------------------------|-------------------------------------|----------------------|--------------------------------|-----------------------------------|------------------|
| Guaranteed<br>@ +25 C                                                                 | Frequency<br>Response<br>(GHz)<br>Min. | Gain<br>(dB)<br>Min. | Noise<br>Figure<br>(dB)<br>Max. | PI dB<br>(dBm)<br>Min. | Gain<br>Flatness<br>(+/-dB)<br>Max. | IP3<br>(dBm)<br>Typ. | VSWR<br>50 Ohms<br>I/O<br>Typ. | Current<br>@12Vdc<br>(mA)<br>Max. | Case<br>Options* |
| DBS-2520N310                                                                          | 2.0-2.5                                | 28                   | 1.5                             | 10                     | 0.5                                 | 20                   | 2.0/2.0                        | 175                               | 4I, 2MH          |
| DBS-2520N420                                                                          | 2.0-2.5                                | 30                   | 1.5                             | 20                     | 0.5                                 | 30                   | 2.0/2.0                        | 275                               | 4I, 2MH          |
| DBS-2520N427                                                                          | 2.0-2.5                                | 30                   | 3.0                             | 27                     | 0.5                                 | 37                   | 2.0/2.0                        | 750                               | 4I, 2MH          |
| DBS-2520N530                                                                          | 2.0-2.5                                | 40                   | 3.0                             | 30                     | 0.5                                 | 40                   | 2.0/2.0                        | 1100                              | 6I, 4MH          |
| DBS-3025N312                                                                          | 2.5-3.0                                | 28                   | 1.5                             | 12                     | 0.5                                 | 22                   | 2.0/2.0                        | 175                               | 4I, 2MH          |
| DBS-3025N420                                                                          | 2.5-3.0                                | 30                   | 1.5                             | 20                     | 0.5                                 | 30                   | 2.0/2.0                        | 275                               | 4I, 2MH          |
| DBS-3025N427                                                                          | 2.5-3.0                                | 30                   | 3.0                             | 27                     | 0.5                                 | 37                   | 2.0/2.0                        | 750                               | 4I, 2MH          |
| DBS-3025N530                                                                          | 2.5-3.0                                | 40                   | 3.0                             | 30                     | 0.5                                 | 40                   | 2.0/2.0                        | 1100                              | 6I, 4MH          |
| DBS-3328N312                                                                          | 2.8-3.3                                | 28                   | 1.5                             | 12                     | 0.5                                 | 22                   | 2.0/2.0                        | 175                               | 4I, 2MH          |
| DBS-3328N420                                                                          | 2.8-3.3                                | 30                   | 1.5                             | 20                     | 0.5                                 | 30                   | 2.0/2.0                        | 275                               | 4I, 2MH          |
| DBS-3328N427                                                                          | 2.8-3.3                                | 28                   | 3.0                             | 27                     | 0.5                                 | 37                   | 2.0/2.0                        | 750                               | 4I, 2MH          |
| DBS-3328N530                                                                          | 2.8-3.3                                | 30                   | 3.0                             | 30                     | 0.5                                 | 40                   | 2.0/2.0                        | 1100                              | 6I, 4MH          |
| DBS-3530N312                                                                          | 3.0-3.5                                | 28                   | 1.5                             | 12                     | 0.5                                 | 22                   | 2.0/2.0                        | 175                               | 4I, 2MH          |
| DBS-3530N420                                                                          | 3.0-3.5                                | 30                   | 1.5                             | 20                     | 0.5                                 | 30                   | 2.2/2.0                        | 275                               | 4I, 2MH          |
| DBS-3530N427                                                                          | 3.0-3.5                                | 30                   | 3.0                             | 27                     | 0.5                                 | 37                   | 2.0/2.0                        | 750                               | 4I, 2MH          |
| DBS-3530N530                                                                          | 3.0-3.5                                | 30                   | 3.0                             | 30                     | 0.5                                 | 40                   | 2.0/2.0                        | 1100                              | 6I, 4MH          |
| DBS-4237N312                                                                          | 3.7-4.2                                | 28                   | 1.5                             | 12                     | 0.5                                 | 22                   | 2.0/2.0                        | 175                               | 4I, 2MH          |
| DBS-4237N420                                                                          | 3.7-4.2                                | 30                   | 1.5                             | 20                     | 0.5                                 | 30                   | 2.0/2.0                        | 275                               | 4I, 2MH          |
| DBS-4237N427                                                                          | 3.7-4.2                                | 30                   | 3.0                             | 27                     | 0.5                                 | 37                   | 2.0/2.0                        | 750                               | 4I, 2MH          |
| DBS-4237N530                                                                          | 3.7-4.2                                | 30                   | 3.0                             | 30                     | 0.5                                 | 40                   | 2.0/2.0                        | 1100                              | 6I, 4MH          |
| DBS<br>Model Number                                                                   | Frequency<br>Response<br>(GHz)<br>Min. | Gain<br>(dB)<br>Min. | Noise<br>Figure<br>(dB)<br>Max. | PI dB<br>(dBm)<br>Min. | Gain<br>Flatness<br>(+/-dB)<br>Max. | IP3<br>(dBm)<br>Typ. | VSWR<br>50 Ohms<br>I/O<br>Typ. | Current<br>@12Vdc<br>(mA)<br>Typ. | Case<br>Options* |
| DBH-4237N637                                                                          | 3.7-4.2                                | 35                   | 6.0                             | 37                     | 1.0                                 | 47                   | 2.0/2.0                        | 3750                              | DBH-M            |
| DBH-4237N639                                                                          | 3.7-4.2                                | 35                   | 6.0                             | 39                     | 1.0                                 | 49                   | 2.0/2.0                        | 5000                              | DBH-M            |

**Notes:**

1. All above-mentioned amplifiers include internal voltage regulator with input voltage of +11.8Vdc to +15.5Vdc.
2. Maximum RF input power is 20dBm (CW) or 30dBm pulse, 1micro second and 1-% duty cycle.
3. All above-mentioned amplifiers are also offered with **temperature compensation** and a variety of gain boxes under special request.

\* Case drawings for various case options are contained in this catalog.