

22dBi PBE-AC-300

| Bandwidth | Frequency | Data Rate | J7<br>Measured<br>Level | J13<br>Measured<br>Level | J7<br>Measured<br>Level | J8<br>Measured<br>Level | Combined<br>output<br>power | Limit | Margin |
|-----------|-----------|-----------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|-------|--------|
| MHz       | MHz       |           | dBm                     | dBm                      | mW                      | mW                      | dBm                         | dBm   | dB     |
| 10        | 5160      | vt0       | -3.8                    | -3                       | 0.4                     | 0.5                     | -0.4                        | 30    | -30.4  |
| 10        | 5200      | vt0       | 6.5                     | 8.9                      | 4.5                     | 7.8                     | 10.9                        | 30    | -19.1  |
| 10        | 5245      | vt0       | 6.3                     | 8.2                      | 4.3                     | 6.6                     | 10.4                        | 30    | -19.6  |
| 20        | 5165      | vt0       | -9.4                    | -8.4                     | 0.1                     | 0.1                     | -5.9                        | 30    | -35.9  |
| 20        | 5200      | vt0       | 9.1                     | 9.6                      | 8.1                     | 9.1                     | 12.4                        | 30    | -17.6  |
| 20        | 5240      | vt0       | 8.7                     | 9.1                      | 7.4                     | 8.1                     | 11.9                        | 30    | -18.1  |
| 30        | 5170      | vt0       | -12.5                   | -11.6                    | 0.1                     | 0.1                     | -9.0                        | 30    | -39.0  |
| 30        | 5200      | vt0       | 6.6                     | 9                        | 4.6                     | 7.9                     | 11.0                        | 30    | -19.0  |
| 30        | 5235      | vt0       | 6.5                     | 8.4                      | 4.5                     | 6.9                     | 10.6                        | 30    | -19.4  |
| 40        | 5175      | vf0       | -12.7                   | -11.3                    | 0.1                     | 0.1                     | -8.9                        | 30    | -38.9  |
| 40        | 5200      | vf0       | 3.2                     | 4.3                      | 2.1                     | 2.7                     | 6.8                         | 30    | -23.2  |
| 40        | 5230      | vf0       | 3.1                     | 3.6                      | 2.0                     | 2.3                     | 6.4                         | 30    | -23.6  |
| 50        | 5180      | vf0       | -13                     | -12                      | 0.1                     | 0.1                     | -9.5                        | 30    | -39.5  |
| 50        | 5200      | vf0       | 0.5                     | 1.1                      | 1.1                     | 1.3                     | 3.8                         | 30    | -26.2  |
| 50        | 5225      | vf0       | 1.2                     | 1.6                      | 1.3                     | 1.4                     | 4.4                         | 30    | -25.6  |
| 60        | 5185      | vf0       | -13                     | -12.2                    | 0.1                     | 0.1                     | -9.6                        | 30    | -39.6  |
| 60        | 5200      | vf0       | -2.2                    | -1.7                     | 0.6                     | 0.7                     | 1.1                         | 30    | -28.9  |
| 60        | 5220      | vf0       | -2.4                    | -1.9                     | 0.6                     | 0.6                     | 0.9                         | 30    | -29.1  |
| 80        | 5190      | ve00      | -16.3                   | -15.7                    | 0.0                     | 0.0                     | -13.0                       | 30    | -43.0  |
| 80        | 5200      | ve00      | -4.9                    | -5                       | 0.3                     | 0.3                     | -1.9                        | 30    | -31.9  |
| 80        | 5210      | ve00      | -2.7                    | -2.1                     | 0.5                     | 0.6                     | 0.6                         | 30    | -29.4  |

25dBi PBE-AC-400

| Bandwidth | Frequency | Data Rate | J7<br>Measured<br>Level | J13<br>Measured<br>Level | J7<br>Measured<br>Level | J8<br>Measured<br>Level | Combined<br>output<br>power | Limit | Margin |
|-----------|-----------|-----------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|-------|--------|
| MHz       | MHz       |           | dBm                     | dBm                      | mW                      | mW                      | dBm                         | dBm   | dB     |
| 10        | 5160      | vt0       | -6.96                   | -6.16                    | 0.2                     | 0.2                     | -3.5                        | 28    | -31.5  |
| 10        | 5200      | vt0       | 3.34                    | 5.74                     | 2.2                     | 3.7                     | 7.7                         | 28    | -20.3  |
| 10        | 5245      | vt0       | 3.14                    | 5.04                     | 2.1                     | 3.2                     | 7.2                         | 28    | -20.8  |
| 20        | 5165      | vt0       | -12.56                  | -11.56                   | 0.1                     | 0.1                     | -9.0                        | 28    | -37.0  |
| 20        | 5200      | vt0       | 5.94                    | 6.44                     | 3.9                     | 4.4                     | 9.2                         | 28    | -18.8  |
| 20        | 5240      | vt0       | 5.54                    | 5.94                     | 3.6                     | 3.9                     | 8.8                         | 28    | -19.2  |
| 30        | 5170      | vt0       | -15.66                  | -14.76                   | 0.0                     | 0.0                     | -12.2                       | 28    | -40.2  |
| 30        | 5200      | vt0       | 3.44                    | 5.84                     | 2.2                     | 3.8                     | 7.8                         | 28    | -20.2  |
| 30        | 5235      | vt0       | 3.34                    | 5.24                     | 2.2                     | 3.3                     | 7.4                         | 28    | -20.6  |
| 40        | 5175      | vf0       | -15.86                  | -14.46                   | 0.0                     | 0.0                     | -12.1                       | 28    | -40.1  |
| 40        | 5180      | vf0       | -8.46                   | -8.46                    | 0.1                     | 0.1                     | -5.4                        | 28    | -33.4  |
| 40        | 5200      | vf0       | 0.04                    | 1.14                     | 1.0                     | 1.3                     | 3.6                         | 28    | -24.4  |
| 40        | 5230      | vf0       | -0.06                   | 0.44                     | 1.0                     | 1.1                     | 3.2                         | 28    | -24.8  |
| 50        | 5180      | vf0       | -16.16                  | -15.16                   | 0.0                     | 0.0                     | -12.6                       | 28    | -40.6  |
| 50        | 5200      | vf0       | -2.66                   | -2.06                    | 0.5                     | 0.6                     | 0.7                         | 28    | -27.3  |
| 50        | 5225      | vf0       | -1.96                   | -1.56                    | 0.6                     | 0.7                     | 1.3                         | 28    | -26.7  |
| 60        | 5185      | vf0       | -16.16                  | -15.36                   | 0.0                     | 0.0                     | -12.7                       | 28    | -40.7  |
| 60        | 5200      | vf0       | -5.36                   | -4.86                    | 0.3                     | 0.3                     | -2.1                        | 28    | -30.1  |
| 60        | 5220      | vf0       | -5.56                   | -5.06                    | 0.3                     | 0.3                     | -2.3                        | 28    | -30.3  |
| 80        | 5190      | ve00      | -19.46                  | -18.86                   | 0.0                     | 0.0                     | -16.1                       | 28    | -44.1  |
| 80        | 5200      | ve00      | -8.06                   | -8.16                    | 0.2                     | 0.2                     | -5.1                        | 28    | -33.1  |
| 80        | 5210      | ve00      | -5.86                   | -5.26                    | 0.3                     | 0.3                     | -2.5                        | 28    | -30.5  |

27dBi PBE-AC-500

| Bandwidth | Frequency | Data Rate | J7<br>Measured<br>Level | J13<br>Measured<br>Level | J7<br>Measured<br>Level | J8<br>Measured<br>Level | Combined<br>output<br>power | Limit | Margin |
|-----------|-----------|-----------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|-------|--------|
| MHz       | MHz       |           | dBm                     | dBm                      | mW                      | mW                      | dBm                         | dBm   | dB     |
| 10        | 5160      | vt0       | -10.38                  | -9.58                    | 0.1                     | 0.1                     | -7.0                        | 26    | -33.0  |
| 10        | 5200      | vt0       | -0.08                   | 2.32                     | 1.0                     | 1.7                     | 4.3                         | 26    | -21.7  |
| 10        | 5245      | vt0       | -0.28                   | 1.62                     | 0.9                     | 1.5                     | 3.8                         | 26    | -22.2  |
| 20        | 5165      | vt0       | -15.98                  | -14.98                   | 0.0                     | 0.0                     | -12.4                       | 26    | -38.4  |
| 20        | 5200      | vt0       | 2.52                    | 3.02                     | 1.8                     | 2.0                     | 5.8                         | 26    | -20.2  |
| 20        | 5240      | vt0       | 2.12                    | 2.52                     | 1.6                     | 1.8                     | 5.3                         | 26    | -20.7  |
| 30        | 5170      | vt0       | -19.08                  | -18.18                   | 0.0                     | 0.0                     | -15.6                       | 26    | -41.6  |
| 30        | 5200      | vt0       | 0.02                    | 2.42                     | 1.0                     | 1.7                     | 4.4                         | 26    | -21.6  |
| 30        | 5235      | vt0       | -0.08                   | 1.82                     | 1.0                     | 1.5                     | 4.0                         | 26    | -22.0  |
| 40        | 5175      | vf0       | -19.28                  | -17.88                   | 0.0                     | 0.0                     | -15.5                       | 26    | -41.5  |
| 40        | 5180      | vf0       | -11.88                  | -11.88                   | 0.1                     | 0.1                     | -8.9                        | 26    | -34.9  |
| 40        | 5200      | vf0       | -3.38                   | -2.28                    | 0.5                     | 0.6                     | 0.2                         | 26    | -25.8  |
| 40        | 5230      | vf0       | -3.48                   | -2.98                    | 0.4                     | 0.5                     | -0.2                        | 26    | -26.2  |
| 50        | 5180      | vf0       | -19.58                  | -18.58                   | 0.0                     | 0.0                     | -16.0                       | 26    | -42.0  |
| 50        | 5200      | vf0       | -6.08                   | -5.48                    | 0.2                     | 0.3                     | -2.8                        | 26    | -28.8  |
| 50        | 5225      | vf0       | -5.38                   | -4.98                    | 0.3                     | 0.3                     | -2.2                        | 26    | -28.2  |
| 60        | 5185      | vf0       | -19.58                  | -18.78                   | 0.0                     | 0.0                     | -16.2                       | 26    | -42.2  |
| 60        | 5200      | vf0       | -8.78                   | -8.28                    | 0.1                     | 0.1                     | -5.5                        | 26    | -31.5  |
| 60        | 5220      | vf0       | -8.98                   | -8.48                    | 0.1                     | 0.1                     | -5.7                        | 26    | -31.7  |
| 80        | 5190      | ve00      | -22.88                  | -22.28                   | 0.0                     | 0.0                     | -19.6                       | 26    | -45.6  |
| 80        | 5200      | ve00      | -11.48                  | -11.58                   | 0.1                     | 0.1                     | -8.5                        | 26    | -34.5  |
| 80        | 5210      | ve00      | -9.28                   | -8.68                    | 0.1                     | 0.1                     | -6.0                        | 26    | -32.0  |

29dBi PBE-AC-620

| Bandwidth | Frequency | Data Rate | J7<br>Measured<br>Level | J13<br>Measured<br>Level | J7<br>Measured<br>Level | J8<br>Measured<br>Level | Combined<br>output<br>power | Limit | Margin |
|-----------|-----------|-----------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|-------|--------|
| MHz       | MHz       |           | dBm                     | dBm                      | mW                      | mW                      | dBm                         | dBm   | dB     |
| 10        | 5160      | vt0       | -11.24                  | -10.44                   | 0.1                     | 0.1                     | -7.8                        | 24    | -31.8  |
| 10        | 5200      | vt0       | -0.94                   | 1.46                     | 0.8                     | 1.4                     | 3.4                         | 24    | -20.6  |
| 10        | 5245      | vt0       | -1.14                   | 0.76                     | 0.8                     | 1.2                     | 2.9                         | 24    | -21.1  |
| 20        | 5165      | vt0       | -16.84                  | -15.84                   | 0.0                     | 0.0                     | -13.3                       | 24    | -37.3  |
| 20        | 5200      | vt0       | 1.66                    | 2.16                     | 1.5                     | 1.6                     | 4.9                         | 24    | -19.1  |
| 20        | 5240      | vt0       | 1.26                    | 1.66                     | 1.3                     | 1.5                     | 4.5                         | 24    | -19.5  |
| 30        | 5170      | vt0       | -19.94                  | -19.04                   | 0.0                     | 0.0                     | -16.5                       | 24    | -40.5  |
| 30        | 5200      | vt0       | -0.84                   | 1.56                     | 0.8                     | 1.4                     | 3.5                         | 24    | -20.5  |
| 30        | 5235      | vt0       | -0.94                   | 0.96                     | 0.8                     | 1.2                     | 3.1                         | 24    | -20.9  |
| 40        | 5175      | vf0       | -20.14                  | -18.74                   | 0.0                     | 0.0                     | -16.4                       | 24    | -40.4  |
| 40        | 5200      | vf0       | -4.24                   | -3.14                    | 0.4                     | 0.5                     | -0.6                        | 24    | -24.6  |
| 40        | 5230      | vf0       | -4.34                   | -3.84                    | 0.4                     | 0.4                     | -1.1                        | 24    | -25.1  |
| 50        | 5180      | vf0       | -20.44                  | -19.44                   | 0.0                     | 0.0                     | -16.9                       | 24    | -40.9  |
| 50        | 5200      | vf0       | -6.94                   | -6.34                    | 0.2                     | 0.2                     | -3.6                        | 24    | -27.6  |
| 50        | 5225      | vf0       | -6.24                   | -5.84                    | 0.2                     | 0.3                     | -3.0                        | 24    | -27.0  |
| 60        | 5185      | vf0       | -20.44                  | -19.64                   | 0.0                     | 0.0                     | -17.0                       | 24    | -41.0  |
| 60        | 5200      | vf0       | -9.64                   | -9.14                    | 0.1                     | 0.1                     | -6.4                        | 24    | -30.4  |
| 60        | 5220      | vf0       | -9.84                   | -9.34                    | 0.1                     | 0.1                     | -6.6                        | 24    | -30.6  |
| 80        | 5190      | ve00      | -23.74                  | -23.14                   | 0.0                     | 0.0                     | -20.4                       | 24    | -44.4  |
| 80        | 5200      | ve00      | -16.24                  | -15.44                   | 0.0                     | 0.0                     | -12.8                       | 24    | -36.8  |
| 80        | 5210      | ve00      | -10.14                  | -9.54                    | 0.1                     | 0.1                     | -6.8                        | 24    | -30.8  |