

# Antenna Specification

Equipment: Wireless Mouse

Model: TPA-P010M

FCC ID: EMJMTPA-P010M

IC: 4251A-K MTPAP010M

Trade: hp

Applicant: Primax Electronics Ltd.

Address: Siemensstrasse 12, 93055 Regensburg, Germany

Manufacturer: No.669,Ruey Kuang Road,Neihu,Taipei,114, Taiwan, R.O.C.

➤ Frequency Range: **2400MHz ~ 2500MHz, Step size: 10MHz**

➤ Antenna Info:

Type: Embedded

Brand: Primax

MN: TPA-P010K

## Antenna Gain and Efficiency

| Test Result                |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)            | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
| Point Values               |       |       |       |       |       |       |       |       |       |       |       |
| Ant. Port Input Pwr. (dBm) | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Tot. Rad. Pwr. (dBm)       | -2.10 | -2.16 | -2.27 | -2.31 | -2.28 | -2.24 | -2.14 | -2.06 | -1.94 | -1.86 | -1.87 |
| Peak EIRP (dBm)            | 2.91  | 2.76  | 2.53  | 2.43  | 2.46  | 2.57  | 2.73  | 2.84  | 3.11  | 3.36  | 3.52  |
| Directivity (dBi)          | 5.01  | 4.92  | 4.80  | 4.73  | 4.74  | 4.81  | 4.87  | 4.91  | 5.05  | 5.22  | 5.39  |
| Efficiency (dB)            | -2.10 | -2.16 | -2.27 | -2.31 | -2.28 | -2.24 | -2.14 | -2.06 | -1.94 | -1.86 | -1.87 |
| Efficiency (%)             | 61.69 | 60.81 | 59.28 | 58.81 | 59.19 | 59.67 | 61.05 | 62.19 | 64.02 | 65.23 | 65.02 |
| Gain (dBi)                 | 2.91  | 2.76  | 2.53  | 2.43  | 2.46  | 2.57  | 2.73  | 2.84  | 3.11  | 3.36  | 3.52  |
| NHPRP ±P/4 (dBm)           | -3.25 | -3.30 | -3.40 | -3.43 | -3.40 | -3.38 | -3.30 | -3.25 | -3.15 | -3.11 | -3.18 |
| NHPRP ±P/6 (dBm)           | -4.34 | -4.35 | -4.42 | -4.42 | -4.37 | -4.34 | -4.25 | -4.20 | -4.11 | -4.10 | -4.19 |
| NHPRP ±P/8 (dBm)           | -5.22 | -5.21 | -5.26 | -5.24 | -5.18 | -5.14 | -5.04 | -4.99 | -4.90 | -4.89 | -4.99 |
| Upper Hem. PRP (dBm)       | -6.75 | -6.72 | -6.72 | -6.64 | -6.51 | -6.39 | -6.21 | -6.04 | -5.82 | -5.65 | -5.56 |
| Lower Hem. PRP (dBm)       | -3.92 | -4.03 | -4.20 | -4.30 | -4.34 | -4.35 | -4.30 | -4.28 | -4.22 | -4.21 | -4.29 |

