



## Pulse External Stubby/ Blade Antennas for ISM, WiFi, 2G/3G/4G Applications

Rev H.04 (April 2019)

| App.                    | Type                              | Pulse Part number                 | RF Performance                           |               |                        | Mechanical requirement |              |                      |                               |                                  | Note                             | Availability                     |                       |
|-------------------------|-----------------------------------|-----------------------------------|--|---------------|------------------------|------------------------|--------------|----------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------|
|                         |                                   |                                   | Frequency range (MHz)                    | RL Min. (dB)  | Peak Gain (dBi)        | Height (mm)            | Diameter(mm) | Package type         | Connector                     | IP-rate                          |                                  |                                  |                       |
|                         |                                   |                                   |  |               |                        | straight (Bent)        | Max (Min)    |                      |                               |                                  |                                  |                                  |                       |
| ISM                     | Stick/Swivel                      | <a href="#">W1076</a>             | 430-435                                  | -14           | -4                     | 108 (82)               | 10 (7.8)     | B                    | SMA(m)                        |                                  |                                  | <a href="#">Stock</a>            |                       |
|                         | Stick/ no Swivel                  | <a href="#">W1089</a>             | 779-787                                  | -10           | 1.5                    | 179                    | 10           | A                    | SMA(m)                        | IP65                             | W1079 (RA-SMA)                   | <a href="#">Stock</a>            |                       |
|                         | Stick/Swivel                      | <a href="#">W1063</a>             | 868-928                                  | -8            | 3                      | 195 (172)              | 13 (6)       | B                    | RP-SMA                        |                                  | W1063M (SMA)<br>W1063V (NM)      | <a href="#">Stock</a>            |                       |
|                         | Stick/ no Swivel                  | <a href="#">W5017</a>             |  | -8            | 2                      | 179                    | 10           | A                    | SMA (m)                       |                                  | <a href="#">W5012(RP-SMA)</a>    | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W5021</a>             | -8                                       | 2             | 171                    | 10                     | G            | RP-SMA (Right angle) |                               |                                  | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W1698</a>             | 868-928; 2400-2500                       | -6; -6        | 0.3; 1.2               | 49.6                   | 10           | F1                   | SMA (m)                       |                                  | <a href="#">W1699(RP-SMA)</a>    | <a href="#">Contact to sales</a> |                       |
| <a href="#">W1698-M</a> |                                   | -6; -6                            |  | 0.3; 1.2      | 50                     | 12                     | F2           | SMA (m)              | IP65                          |                                  | <a href="#">Contact to sales</a> |                                  |                       |
| WiFi (2.4GHz)           | Stick/Swivel                      | <a href="#">W1010</a>             | 2400-2500                                | -10           | 2                      | 108 (86)               | 10 (7.8)     | B                    | SMA(m)                        |                                  | W1030W (White)                   | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W1030</a>             |  | -10           | 2                      | 108 (86)               | 10 (7.8)     | B                    | RP-SMA                        |                                  |                                  | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W1027</a>             |  | -11           | 3.2                    | 136 (110)              | 10 (6)       | C                    | RP-SMA                        |                                  |                                  | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W1038</a>             |  | -10           | 3.8                    | 197 (170)              | 13.2 (7.4)   | C                    | RP-SMA                        |                                  |                                  | W1038W (White)<br>W1038G (Grey)  | <a href="#">Stock</a> |
|                         |                                   | <a href="#">W1059</a>             |  | -10           | 5                      | 195 (172)              | 13 (6)       | C                    | SMA (m)                       |                                  |                                  | <a href="#">Stock</a>            |                       |
|                         | Stick/ no Swivel                  | <a href="#">W5001</a>             |  | -10           | 1.5                    | 128                    | 10 (6)       | G                    | RP-SMA (Right angle)          | IP65                             |                                  | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W5010</a>             |  | -10           | 1.5                    | 130                    | 10 (6)       | A                    | RP-SMA                        |                                  | <a href="#">W5011 (SMA)</a>      | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W5039</a>             |  | -10           | 1.3                    | 94                     | 10 (6)       | F                    | RP-SMA                        | IP67                             |                                  | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W1095</a>             |  | -7.5          | 1                      | 50                     | 8            | F                    | SMA                           |                                  | W1095K (RA - SMA)                | <a href="#">Stock</a>            |                       |
|                         |                                   | WiFi (5GHz)                       |  | Stick/Swivel  | <a href="#">W1028B</a> | 5150-5850              | -9           | 2                    | 136 (114)                     | 9.2 (6)                          | C                                | RP-SMA                           |                       |
| Dual WiFi (2.4/5GHz)    | Blade/ Swivel                     | <a href="#">W1043</a>             | 2400-2500; 5150-5850                     | -10           | 2                      | 157 (130)              | 17.6 (13)    | E                    | RP-SMA                        |                                  | W1044 (SMA)                      | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">SPDA17RP2400/5900</a> | 2400-2500; 4900-5900                     | -10           | 0.8; 5.9               | 175 (150)              | 21.8 (13.7)  | H                    | RP-TNC                        |                                  | <a href="#">Stock</a>            |                                  |                       |
|                         | Stick/ no Swivel                  | <a href="#">W5098</a>             | -10                                      | 1.7; 3.5      | 150 (120)              | 13 (6)                 | C            | RP-SMA               | IP67                          | <a href="#">W5097 (SMA)</a>      | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W5028</a>             | 2400-2500; 5150-5850                     | -10           | 1.9; 5.5               | 128                    | 10 (6)       | G                    | RP-SMA (Right angle)          | IP65                             | W5028RPG (Straight, RP-SMA)      | <a href="#">Stock</a>            |                       |
| 2G                      | Blade/ Swivel                     | <a href="#">W5029</a>             | 2400-2500; 5150-5925                     | -10           | 2.3; 5                 | 78                     | 7.9          | G                    | RP-SMA (Right angle)          | IP65                             | W5029RPG (Straight, RP-SMA)      | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">SPDA24850/1900</a>    | 824-894; 1850-1990                       | -7.5          | 0; 1.5                 | 176 (147)              | 21.8 (13.7)  | H                    | SMA (m)                       |                                  | <a href="#">Stock</a>            |                                  |                       |
| 3G                      | Stick/ no Swivel                  | <a href="#">SPDA17850/1900</a>    |  | -10           | 0; 1.2                 | 176 (147)              | 21.8 (13.7)  | H                    | TNC                           |                                  | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W1900</a>             | 824-960; 1710-2170                       | -4;-6         | 1; 2                   | 49                     | 8            | D                    | SMA (m) (Right angle)         |                                  | <a href="#">W1902(RP-SMA)</a>    | <a href="#">Stock</a>            |                       |
|                         |                                   | <a href="#">W1900-M</a>           |  | -4;-6         | 1; 2                   | 52                     | 11.4 (8)     | D                    | SMA (m) (Right angle)         | IP65                             | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W1910</a>             |  | -4;-6         | 1; 2                   | 49                     | 10 (8)       | F1                   | SMA (m)                       |                                  | <a href="#">W1911(RP-SMA)</a>    | <a href="#">Stock</a>            |                       |
|                         | <a href="#">W1910-M</a>           | -4;-6                             |  | 1; 2          | 50                     | 12 (8.5)               | F2           | SMA (m)              | IP65                          | <a href="#">Stock</a>            |                                  |                                  |                       |
| Blade/ Swivel           | <a href="#">SPDA17806/2170LAR</a> | 806-960; 1710-2170                | -7.5                                     | 0.5; 0.5      | 192 (159)              | 23.8 (15.7)            | H            | TNC                  |                               | Medium Grey                      | <a href="#">Stock</a>            |                                  |                       |
| 4G/5G                   | Blade/ Swivel                     | <a href="#">SPDA24700/2700</a>    | 698-960; 1710-2170; 2500-2700            | -7.5          | 0.6; 1.5; 3.4          | 223 (192)              | 23.8 (15.6)  | H                    | SMA (m)                       |                                  | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W5095X</a>            | 698-960; 1447-1510; 1710-2170; 2500-2700 | -7.5          | 1.5; 2.5               | 229 (198)              | 29 (15.5)    | H                    | SMA (m): W5095K<br>TNC: W5095 | IP65                             | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">W5084X</a>            | 698-960; 1440-2690; 3400-3700            | -6            | 2.0; 4.0; 5.0          | 229 (198)              | 44 (15.5)    | H                    | SMA (m): W5084K<br>TNC: W5084 | IP65                             | <a href="#">Stock</a>            |                                  |                       |
|                         |                                   | <a href="#">SPDA24617/3900</a>    | 617-960; 1710-2700; 3200-3900            | -6            | 1; 2.5; 3              | 224 ( 198)             | 37 (15.5)    | H                    | SMA (m)                       | IP65                             | <a href="#">Stock</a>            |                                  |                       |
|                         | Stick/ no Swivel                  | <a href="#">W1696</a>             | 617-960; 1710-2690; 3400-3800            | -5;-5;-4      | -0.5;1;0               | 49.6                   | 10           | F1                   | SMA (m)                       |                                  | <a href="#">W1697 (RP-SMA)</a>   | <a href="#">Contact to sales</a> |                       |
|                         |                                   | <a href="#">W1696-M</a>           | -5;-5;-4                                 | -0.5;1;0      | 50                     | 12                     | F2           | SMA (m)              | IP65                          | <a href="#">Contact to sales</a> |                                  |                                  |                       |
| <a href="#">W1096</a>   |                                   | 698-960; 1710-2690; 3400-3800     | -5;-10;-4                                | -0.5; 4; -0.5 | 106                    | 10.5                   | G            | RP-SMA (Right angle) | IP65                          | <a href="#">Contact to sales</a> |                                  |                                  |                       |