



Pulse Embedded Antennas for 2G/3G/4G Applications

Rev H.02 (JAN 2018)

| App. | Type | Pulse Part number | RF Performance | | | | | | ME requirement | | | Note | Availability |
|----------------|-----------|------------------------|-----------------------|--------------|----------------------|------------|-----------------------|------------|-------------------------|--------------------|----------------------------------|--|-----------------------|
| | | | Frequency range (MHz) | RL Min. (dB) | Peak Gain (dBi) | | Efficiency (%) / (dB) | | Antenna DIM. (LxWxH,mm) | GC-area (L x W,mm) | Evaluation Board Size (L x W,mm) | | |
| | | | | | Peak | Band edges | Peak | Band edges | | | | | |
| LTE | Composite | W3796 | 698-960 | -6 | 1.5 (Avg. peak gain) | | 65 (Avg.) | | 40 x 7 x 3 | 40.6 x 15 | 120 x 40.6 | - Top mount: Horizontal - Matching: SE3.3nH+SH0.7pF; SH6.8nH | Stock |
| | | | 1427.9-1660.9 | -5.5 | 2 (Avg. peak gain) | | 55 (Avg.) | | | | | | |
| | | | 1695-2200 | -6 | 5.5 (Avg. peak gain) | | 75 (Avg.) | | | | | | |
| | | | 2300-2700 | -6 | 5 (Avg. peak gain) | | 70 (Avg.) | | | | | | |
| Penta Band | | W3544A | 824-960 | -3.7 | 0.5 | 1.8 | 65 | 44 | 7.65 x 26 x 3 | 21 x 33.5 (W3544A) | 110 x 50 | 1. Corner mount (vertical). 2.matching: *SE12nH - W3544AH (different packaging orientation) | Stock |
| | | | 1710-1880 | -4.6 | 2.9 | 2.3 | 74 | 45 | | | | | |
| | | | 1850-1990 | -8.6 | 2.4 | 1.7 | 74 | 64 | | | | | |
| | | | 1920-2170 | -5.6 | 2.2 | 1.1 | 68 | 60 | | | | | |
| | | W3544B | 824-960 | -6.5 | 1 | -0.7 | 70 | 53 | 7.65 x 26 x 3 | 50 x 18 (W3544B) | 110 x 50 | 1. Top mount (Horizontal) 2.matching: 10nH | Stock |
| | | | 1710-1880 | -5.7 | 2.7 | 1.7 | 77 | 59 | | | | | |
| | | | 1850-1990 | -9.3 | 2 | 1 | 77 | 69 | | | | | |
| | | | 1920-2170 | -5 | 1.8 | 0.2 | 71 | 58 | | | | | |
| Quad band (US) | Ceramic | W3073 | 824-894 | -4.7 | 0.4 | -2.6 | 51 | 28 | 10 x 3.2 x 4 | 40 x 10 | 105 x 40 | 1. Matching: SE10nH+SE12nH+SH12nH 2.Tuning strip on PCB. | Stock |
| | | | 1710-1880 | -3.5 | 2.3 | 0.7 | 59 | 40 | | | | | |
| | | | 1850-1990 | -5.9 | 2.5 | 1.6 | 59 | 54 | | | | | |
| | | | 1920-2170 | -3.3 | 2.2 | 0.9 | 58 | 46 | | | | | |
| Quad band (EU) | | W3073 | 880-960 | -3.8 | 1 | -1.8 | 60 | 34 | 10 x 3.2 x 4 | 40 x 10 | 105 x 40 | 1. Matching: *SE10nH+*SE10nH+*SH15nH. 2.Tuning strip on PCB. | Stock |
| | | | 1710-1880 | -4.9 | 2.9 | 2 | 70 | 54 | | | | | |
| | | | 1850-1990 | -8 | 2.9 | 2.5 | 71 | 62 | | | | | |
| | | | 1920-2170 | -4.4 | 2.8 | 2.3 | 67 | 59 | | | | | |
| Dual band (EU) | | W3070 | 880-960 | -5.1 | 1.2 | -0.4 | 65 | 47 | 10 x 3.2 x 2 | 40 x 10 | 95 x 40 | Matching: *SE18nH+*SE10nH | Stock |
| | | | 1710-1880 | -5.7 | 2.5 | 1.5 | 60 | 50 | | | | | |

NOTE: 1. "Stock" Stocked parts are typically available from Pulse distribution partners immediately. 2. * SE = Series and *SH = Shunt