

# SMD Chip Beads

# SB/NB/HF/GB/PB/UPB

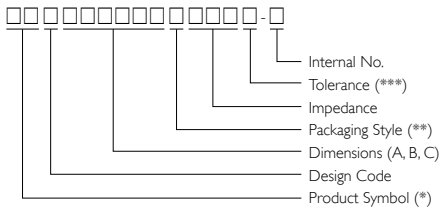


## OUTLINE

Yageo offers hundreds of multi-layered ferrite chip beads with various sizes, frequency characteristics, and a wide range of impedance values to provide powerful solutions for EMI problems.

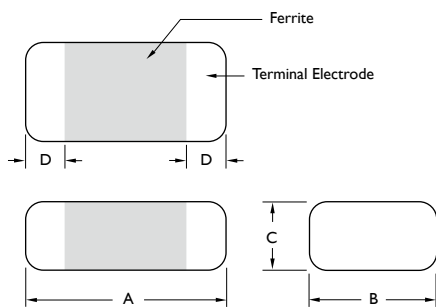
Three formulas of ferrite compose several types of EMI suppression chip beads that are classified into six categories- SB, NB, HF, GB, PB and UPB series.

## PRODUCT IDENTIFICATION



- Product Symbol: SB, NB, HF, GB, PB, UPB
- Packaging: T = Tape and Reel, B = Bulk
- Tolerance: M = ±20%, Y = ±25%, T = ±30%
- Internal No.: N = Lead-Free

## SHAPES AND DIMENSIONS



Unit: mm

| TYPE               |        | A          | B           | C           | D           |
|--------------------|--------|------------|-------------|-------------|-------------|
| SB/NB/PB/HF        | 100505 | 1.0 ± 0.10 | 0.50 ± 0.10 | 0.5 ± 0.10  | 0.25 ± 0.10 |
| SB/NB/GB/PB/UPB/HF | 160808 | 1.6 ± 0.15 | 0.80 ± 0.15 | 0.8 ± 0.15  | 0.3 ± 0.2   |
| SB/NB/GB/PB/UPB    | 201209 | 2.0 ± 0.20 | 1.25 ± 0.20 | 0.9 ± 0.20  | 0.5 ± 0.3   |
| UPB                | 201212 | 2.0 ± 0.20 | 1.25 ± 0.20 | 1.25 ± 0.20 | 0.5 ± 0.3   |
| SB/NB/GB/PB/UPB    | 321611 | 3.2 ± 0.20 | 1.60 ± 0.20 | 1.1 ± 0.20  | 0.5 ± 0.3   |
| SB/GB              | 321616 | 3.2 ± 0.20 | 1.60 ± 0.20 | 1.6 ± 0.20  | 0.5 ± 0.3   |
| SB/GB/PB           | 322513 | 3.2 ± 0.20 | 2.50 ± 0.20 | 1.3 ± 0.20  | 0.5 ± 0.3   |
| SB/GB/PB/UPB       | 451616 | 4.5 ± 0.25 | 1.60 ± 0.20 | 1.6 ± 0.20  | 0.5 ± 0.3   |
| SB/GB/PB/UPB       | 453215 | 4.5 ± 0.25 | 3.20 ± 0.20 | 1.5 ± 0.20  | 0.5 ± 0.3   |

## ELECTRICAL CHARACTERISTICS SB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| SBY100505T-060Y-N | 6                                    | 100                     | 0.05                               | 500                        |
| SBY100505T-100Y-N | 10                                   | 100                     | 0.05                               | 500                        |
| SBY100505T-400Y-N | 40                                   | 100                     | 0.20                               | 500                        |
| SBY100505T-800Y-N | 80                                   | 100                     | 0.20                               | 500                        |
| SBY100505T-121Y-N | 120                                  | 100                     | 0.25                               | 500                        |
| SBY100505T-241Y-N | 240                                  | 100                     | 0.40                               | 400                        |
| SBY100505T-481Y-N | 480                                  | 100                     | 0.50                               | 300                        |
| SBY100505T-601Y-N | 600                                  | 100                     | 0.60                               | 300                        |
| SBY100505T-102Y-N | 1,000                                | 100                     | 0.95                               | 200                        |
| SBY100505T-152Y-N | 1,500                                | 100                     | 1.15                               | 100                        |
| SBY100505T-182Y-N | 1,800                                | 100                     | 1.40                               | 100                        |
| SBK160808T-110Y-N | 11                                   | 100                     | 0.05                               | 500                        |
| SBK160808T-190Y-N | 19                                   | 100                     | 0.08                               | 500                        |
| SBK160808T-300Y-N | 30                                   | 100                     | 0.10                               | 400                        |
| SBK160808T-400Y-N | 40                                   | 100                     | 0.10                               | 400                        |
| SBK160808T-600Y-N | 60                                   | 100                     | 0.10                               | 400                        |
| SBK160808T-800Y-N | 80                                   | 100                     | 0.15                               | 400                        |
| SBK160808T-121Y-N | 120                                  | 100                     | 0.25                               | 400                        |
| SBK160808T-221Y-N | 220                                  | 100                     | 0.30                               | 300                        |
| SBK160808T-301Y-N | 300                                  | 100                     | 0.40                               | 300                        |
| SBK160808T-451Y-N | 450                                  | 100                     | 0.50                               | 300                        |
| SBK160808T-601Y-N | 600                                  | 100                     | 0.50                               | 300                        |
| SBK160808T-751Y-N | 750                                  | 100                     | 0.60                               | 300                        |
| SBK160808T-102Y-N | 1,000                                | 100                     | 0.60                               | 300                        |
| SBK160808T-152Y-N | 1,500                                | 100                     | 0.60                               | 300                        |
| SBK160808T-222Y-N | 2,200                                | 100                     | 0.80                               | 200                        |
| SBK160808T-272Y-N | 2,700                                | 100                     | 0.80                               | 200                        |



## ELECTRICAL CHARACTERISTICS SB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| SBY201209T-070Y-N | 7                                    | 100                     | 0.10                               | 600                        |
| SBY201209T-090Y-N | 9                                    | 100                     | 0.10                               | 600                        |
| SBY201209T-110Y-N | 11                                   | 100                     | 0.10                               | 600                        |
| SBY201209T-170Y-N | 17                                   | 100                     | 0.10                               | 600                        |
| SBY201209T-320Y-N | 32                                   | 100                     | 0.10                               | 600                        |
| SBK201209T-600Y-N | 60                                   | 100                     | 0.15                               | 500                        |
| SBK201209T-700Y-N | 70                                   | 100                     | 0.15                               | 500                        |
| SBK201209T-800Y-N | 80                                   | 100                     | 0.15                               | 500                        |
| SBK201209T-121Y-N | 120                                  | 100                     | 0.25                               | 300                        |
| SBK201209T-151Y-N | 150                                  | 100                     | 0.25                               | 300                        |
| SBK201209T-221Y-N | 220                                  | 100                     | 0.30                               | 300                        |
| SBK201209T-301Y-N | 300                                  | 100                     | 0.30                               | 300                        |
| SBK201209T-401Y-N | 400                                  | 100                     | 0.30                               | 300                        |
| SBK201209T-501Y-N | 500                                  | 100                     | 0.40                               | 300                        |
| SBK201209T-601Y-N | 600                                  | 100                     | 0.40                               | 300                        |
| SBK201209T-751Y-N | 750                                  | 100                     | 0.50                               | 200                        |
| SBK201209T-102Y-N | 1,000                                | 100                     | 0.50                               | 200                        |
| SBK201209T-152Y-N | 1,500                                | 100                     | 0.60                               | 200                        |
| SBK201209T-202Y-N | 2,000                                | 100                     | 0.70                               | 200                        |
| SBK201209T-222Y-N | 2,200                                | 100                     | 0.70                               | 200                        |
| SBK201209T-252Y-N | 2,500                                | 100                     | 0.70                               | 200                        |
| SBK201209T-272Y-N | 2,700                                | 100                     | 0.70                               | 200                        |
| SBY321611T-190Y-N | 19                                   | 100                     | 0.05                               | 600                        |
| SBY321611T-260Y-N | 26                                   | 100                     | 0.05                               | 600                        |
| SBY321611T-320Y-N | 32                                   | 100                     | 0.05                               | 600                        |
| SBY321611T-500Y-N | 50                                   | 100                     | 0.10                               | 500                        |
| SBY321611T-600Y-N | 60                                   | 100                     | 0.10                               | 500                        |
| SBK321611T-700Y-N | 70                                   | 100                     | 0.10                               | 500                        |
| SBK321611T-900Y-N | 90                                   | 100                     | 0.15                               | 500                        |
| SBK321611T-121Y-N | 120                                  | 100                     | 0.15                               | 500                        |
| SBK321611T-151Y-N | 150                                  | 100                     | 0.15                               | 500                        |
| SBK321611T-201Y-N | 200                                  | 100                     | 0.20                               | 400                        |
| SBK321611T-401Y-N | 400                                  | 100                     | 0.20                               | 400                        |
| SBK321611T-501Y-N | 500                                  | 100                     | 0.20                               | 400                        |
| SBK321611T-601Y-N | 600                                  | 100                     | 0.30                               | 400                        |
| SBK321611T-102Y-N | 1,000                                | 50                      | 0.40                               | 200                        |
| SBK321611T-122Y-N | 1,200                                | 50                      | 0.40                               | 200                        |
| SBK321611T-152Y-N | 1,500                                | 50                      | 0.45                               | 200                        |
| SBK321611T-202Y-N | 2,000                                | 30                      | 0.60                               | 200                        |
| SBK321611T-272Y-N | 2,700                                | 30                      | 0.60                               | 200                        |

## ELECTRICAL CHARACTERISTICS SB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| SBY321616T-250Y-N | 25                                   | 100                     | 0.10                               | 500                        |
| SBY321616T-600Y-N | 60                                   | 100                     | 0.20                               | 500                        |
| SBK321616T-700Y-N | 70                                   | 100                     | 0.20                               | 500                        |
| SBY322513T-320Y-N | 32                                   | 100                     | 0.20                               | 500                        |
| SBY322513T-600Y-N | 60                                   | 100                     | 0.20                               | 500                        |
| SBY322513T-900Y-N | 90                                   | 100                     | 0.20                               | 500                        |
| SBY451616T-500Y-N | 50                                   | 100                     | 0.20                               | 600                        |
| SBY451616T-600Y-N | 60                                   | 100                     | 0.20                               | 600                        |
| SBY451616T-800Y-N | 80                                   | 100                     | 0.20                               | 600                        |
| SBY451616T-101Y-N | 100                                  | 100                     | 0.30                               | 500                        |
| SBK451616T-151Y-N | 150                                  | 100                     | 0.30                               | 500                        |
| SBK451616T-171Y-N | 170                                  | 100                     | 0.30                               | 500                        |
| SBY453215T-700Y-N | 70                                   | 100                     | 0.30                               | 500                        |
| SBY453215T-121Y-N | 120                                  | 100                     | 0.30                               | 500                        |



## ELECTRICAL CHARACTERISTICS NB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| NBQ100505T-060Y-N | 6                                    | 100                     | 0.08                               | 500                        |
| NBQ100505T-100Y-N | 10                                   | 100                     | 0.10                               | 500                        |
| NBQ100505T-400Y-N | 40                                   | 100                     | 0.25                               | 400                        |
| NBQ100505T-800Y-N | 80                                   | 100                     | 0.30                               | 400                        |
| NBQ100505T-121Y-N | 120                                  | 100                     | 0.40                               | 350                        |
| NBQ100505T-221Y-N | 220                                  | 100                     | 0.60                               | 200                        |
| NBQ100505T-301Y-N | 300                                  | 100                     | 1.00                               | 200                        |
| NBQ100505T-481Y-N | 480                                  | 100                     | 1.10                               | 200                        |
| NBQ100505T-601Y-N | 600                                  | 100                     | 1.20                               | 200                        |
| NBQ160808T-060Y-N | 6                                    | 100                     | 0.05                               | 700                        |
| NBQ160808T-100Y-N | 10                                   | 100                     | 0.07                               | 500                        |
| NBQ160808T-400Y-N | 40                                   | 100                     | 0.20                               | 500                        |
| NBQ160808T-600Y-N | 60                                   | 100                     | 0.25                               | 500                        |
| NBQ160808T-800Y-N | 80                                   | 100                     | 0.25                               | 500                        |
| NBQ160808T-121Y-N | 120                                  | 100                     | 0.30                               | 400                        |
| NBQ160808T-241Y-N | 240                                  | 100                     | 0.35                               | 400                        |
| NBQ160808T-301Y-N | 300                                  | 100                     | 0.40                               | 400                        |
| NBQ160808T-481Y-N | 480                                  | 100                     | 0.50                               | 200                        |
| NBQ160808T-601Y-N | 600                                  | 100                     | 0.50                               | 200                        |
| NBQ160808T-102Y-N | 1,000                                | 100                     | 0.60                               | 200                        |
| NBQ160808T-122Y-N | 1,200                                | 100                     | 0.60                               | 100                        |
| NBQ160808T-152Y-N | 1,500                                | 100                     | 0.70                               | 100                        |
| NBQ160808T-182Y-N | 1,800                                | 100                     | 0.80                               | 100                        |
| NBQ160808T-222Y-N | 2,200                                | 100                     | 1.00                               | 100                        |
| NBQ160808T-252Y-N | 2,500                                | 100                     | 1.00                               | 100                        |

## ELECTRICAL CHARACTERISTICS NB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| NBQ201209T-060Y-N | 6                                    | 100                     | 0.07                               | 800                        |
| NBQ201209T-110Y-N | 11                                   | 100                     | 0.10                               | 700                        |
| NBQ201209T-260Y-N | 26                                   | 100                     | 0.15                               | 600                        |
| NBQ201209T-320Y-N | 32                                   | 100                     | 0.15                               | 600                        |
| NBQ201209T-600Y-N | 60                                   | 100                     | 0.15                               | 500                        |
| NBQ201209T-750Y-N | 75                                   | 100                     | 0.15                               | 500                        |
| NBQ201209T-900Y-N | 90                                   | 100                     | 0.15                               | 500                        |
| NBQ201209T-121Y-N | 120                                  | 100                     | 0.20                               | 500                        |
| NBQ201209T-151Y-N | 150                                  | 100                     | 0.20                               | 500                        |
| NBQ201209T-171Y-N | 170                                  | 100                     | 0.30                               | 500                        |
| NBQ201209T-221Y-N | 220                                  | 100                     | 0.30                               | 500                        |
| NBQ201209T-301Y-N | 300                                  | 100                     | 0.30                               | 500                        |
| NBQ201209T-401Y-N | 400                                  | 100                     | 0.35                               | 500                        |
| NBQ201209T-501Y-N | 500                                  | 100                     | 0.35                               | 500                        |
| NBQ201209T-601Y-N | 600                                  | 100                     | 0.35                               | 500                        |
| NBQ201209T-102Y-N | 1,000                                | 100                     | 0.40                               | 400                        |
| NBQ201209T-122Y-N | 1,200                                | 100                     | 0.45                               | 400                        |
| NBQ201209T-152Y-N | 1,500                                | 100                     | 0.45                               | 400                        |
| NBQ201209T-222Y-N | 2,200                                | 100                     | 0.50                               | 400                        |
| NBQ201209T-272Y-N | 2,700                                | 100                     | 0.60                               | 200                        |
| NBQ321611T-320Y-N | 32                                   | 100                     | 0.15                               | 600                        |
| NBQ321611T-600Y-N | 60                                   | 100                     | 0.15                               | 500                        |
| NBQ321611T-800Y-N | 80                                   | 100                     | 0.15                               | 500                        |
| NBQ321611T-900Y-N | 90                                   | 100                     | 0.15                               | 500                        |
| NBQ321611T-121Y-N | 120                                  | 100                     | 0.20                               | 500                        |
| NBQ321611T-151Y-N | 150                                  | 100                     | 0.20                               | 500                        |
| NBQ321611T-201Y-N | 200                                  | 100                     | 0.25                               | 400                        |
| NBQ321611T-221Y-N | 220                                  | 100                     | 0.30                               | 400                        |
| NBQ321611T-351Y-N | 350                                  | 100                     | 0.30                               | 400                        |
| NBQ321611T-401Y-N | 400                                  | 100                     | 0.30                               | 400                        |
| NBQ321611T-601Y-N | 600                                  | 100                     | 0.35                               | 400                        |
| NBQ321611T-122Y-N | 1,200                                | 100                     | 0.40                               | 300                        |
| NBQ321611T-152Y-N | 1,500                                | 100                     | 0.45                               | 300                        |



## ELECTRICAL CHARACTERISTICS NB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| NBP160808T-220Y-N | 22                                   | 100                     | 0.07                               | 1,800                      |
| NBP160808T-300Y-N | 30                                   | 100                     | 0.07                               | 1,800                      |
| NBP160808T-600Y-N | 60                                   | 100                     | 0.10                               | 1,500                      |
| NBP160808T-800Y-N | 80                                   | 100                     | 0.12                               | 1,200                      |
| NBP160808T-121Y-N | 120                                  | 100                     | 0.15                               | 1,000                      |
| NBP201209T-070Y-N | 7                                    | 100                     | 0.03                               | 2,000                      |
| NBP201209T-320Y-N | 32                                   | 100                     | 0.05                               | 1,800                      |
| NBP201209T-400Y-N | 40                                   | 100                     | 0.08                               | 1,500                      |
| NBP201209T-600Y-N | 60                                   | 100                     | 0.08                               | 1,500                      |
| NBP201209T-121Y-N | 120                                  | 100                     | 0.10                               | 1,000                      |
| NBP201209T-221Y-N | 220                                  | 100                     | 0.15                               | 800                        |
| NBP321611T-150Y-N | 15                                   | 100                     | 0.04                               | 2,000                      |
| NBP321611T-190Y-N | 19                                   | 100                     | 0.04                               | 2,000                      |
| NBP321611T-300Y-N | 30                                   | 100                     | 0.06                               | 1,800                      |
| NBP321611T-600Y-N | 60                                   | 100                     | 0.08                               | 1,500                      |
| NBP321611T-121Y-N | 120                                  | 100                     | 0.10                               | 1,200                      |
| NBP321611T-221Y-N | 220                                  | 100                     | 0.12                               | 1,200                      |
| NBP321611T-601Y-N | 600                                  | 100                     | 0.15                               | 1,000                      |

## ELECTRICAL CHARACTERISTICS HF Series

| PART NO.           | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | IMPEDANCE<br>( $\Omega$ ) Max. | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|--------------------|--------------------------------------|-------------------------|--------------------------------|-------------------------|------------------------------------|----------------------------|
| HFJ100505T-601Y-N  | 600                                  | 100                     | 1,400                          | 1,000                   | 0.850                              | 300                        |
| HFJ100505T-102Y-N  | 1,000                                | 100                     | 2,000                          | 1,000                   | 1.250                              | 250                        |
| HFJ100505T-152Y-N  | 1,500                                | 100                     | 2,400                          | 1,000                   | 1.800                              | 230                        |
| HFJ100505T-182Y-N  | 1,800                                | 100                     | 2,700                          | 1,000                   | 2.200                              | 200                        |
| HFJ160808T-471Y-N  | 470                                  | 100                     | 1,000                          | 1,000                   | 1.000                              | 100                        |
| HFJ160808T-601Y-N  | 600                                  | 100                     | 1,200                          | 1,000                   | 1.100                              | 100                        |
| HFJ160808T-102Y-N  | 1,000                                | 100                     | 1,200                          | 1,000                   | 1.600                              | 50                         |
| HFJ160808T-152Y-N  | 1,500                                | 100                     | 1,500                          | 1,000                   | 1.700                              | 50                         |
| HFQ100505T-121Y-N  | 120                                  | 100                     | 500                            | 1,000                   | 0.700                              | 300                        |
| HFQ100505T-221Y-N  | 220                                  | 100                     | 900                            | 1,000                   | 1.000                              | 250                        |
| HFQ160808T-121Y-N  | 120                                  | 100                     | 500                            | 1,000                   | 0.500                              | 200                        |
| HFQ160808T-221Y-N  | 220                                  | 100                     | 1,100                          | 1,000                   | 0.800                              | 100                        |
| HFQ160808T-301Y-N  | 300                                  | 100                     | 1,300                          | 1,000                   | 1.100                              | 80                         |
| HFQ160808T-331Y-N  | 330                                  | 100                     | 1,600                          | 1,000                   | 1.200                              | 50                         |
| HFV160808T-601Y-N  | 600                                  | 100                     | 600                            | 1,000                   | 0.250                              | 800                        |
| HFV160808T-102Y-N  | 1,000                                | 100                     | 1,000                          | 1,000                   | 0.350                              | 600                        |
| HFV160808T-152Y-N  | 1,500                                | 100                     | 1,500                          | 1,000                   | 0.500                              | 500                        |
| HFY100505T-601Y-N  | 600                                  | 100                     | 1,000                          | 1,000                   | 0.700                              | 300                        |
| HFY100505T-102Y-N  | 1,000                                | 100                     | 1,400                          | 1,000                   | 1.100                              | 250                        |
| HFY100505T-121Y-NP | 120                                  | 100                     | 150                            | 1,000                   | 0.095                              | 1,500                      |
| HFY100505T-221Y-NP | 220                                  | 100                     | 270                            | 1,000                   | 0.280                              | 700                        |
| HFY160808T-301Y-N  | 300                                  | 100                     | 550                            | 1,000                   | 0.700                              | 200                        |
| HFY160808T-471Y-N  | 470                                  | 100                     | 600                            | 1,000                   | 0.700                              | 200                        |
| HFY160808T-601Y-N  | 600                                  | 100                     | 700                            | 1,000                   | 0.800                              | 200                        |
| HFY160808T-102Y-N  | 1,000                                | 100                     | 1,000                          | 1,000                   | 1.500                              | 100                        |
| HFY160808T-152Y-N  | 1,500                                | 100                     | 1,500                          | 1,000                   | 1.600                              | 100                        |
| HFY160808T-331Y-NP | 330                                  | 100                     | 450                            | 1,000                   | 0.210                              | 500                        |
| HFY160808T-391Y-NP | 390                                  | 100                     | 520                            | 1,000                   | 0.210                              | 500                        |
| HFY160808T-471Y-NP | 470                                  | 100                     | 600                            | 1,000                   | 0.210                              | 500                        |
| HFY160808T-601Y-NP | 600                                  | 100                     | 700                            | 1,000                   | 0.350                              | 500                        |
| HFY160808T-102Y-NP | 1,000                                | 100                     | 1,000                          | 1,000                   | 0.500                              | 450                        |





## ELECTRICAL CHARACTERISTICS GB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| GBK160808T-110Y-N | 11                                   | 100                     | 0.03                               | 1,000                      |
| GBK160808T-190Y-N | 19                                   | 100                     | 0.05                               | 1,000                      |
| GBK160808T-300Y-N | 30                                   | 100                     | 0.06                               | 800                        |
| GBK160808T-400Y-N | 40                                   | 100                     | 0.06                               | 800                        |
| GBK160808T-600Y-N | 60                                   | 100                     | 0.06                               | 600                        |
| GBK160808T-800Y-N | 80                                   | 100                     | 0.10                               | 600                        |
| GBK160808T-121Y-N | 120                                  | 100                     | 0.15                               | 600                        |
| GBK160808T-221Y-N | 220                                  | 100                     | 0.18                               | 400                        |
| GBK160808T-301Y-N | 300                                  | 100                     | 0.25                               | 400                        |
| GBK160808T-451Y-N | 450                                  | 100                     | 0.30                               | 400                        |
| GBK160808T-601Y-N | 600                                  | 100                     | 0.30                               | 400                        |
| GBK160808T-751Y-N | 750                                  | 100                     | 0.45                               | 300                        |
| GBK160808T-102Y-N | 1,000                                | 100                     | 0.45                               | 300                        |
| GBY201209T-070Y-N | 7                                    | 100                     | 0.06                               | 1,000                      |
| GBY201209T-090Y-N | 9                                    | 100                     | 0.06                               | 1,000                      |
| GBY201209T-110Y-N | 11                                   | 100                     | 0.06                               | 1,000                      |
| GBY201209T-170Y-N | 17                                   | 100                     | 0.06                               | 1,000                      |
| GBY201209T-320Y-N | 32                                   | 100                     | 0.06                               | 1,000                      |
| GBK201209T-600Y-N | 60                                   | 100                     | 0.10                               | 800                        |
| GBK201209T-700Y-N | 70                                   | 100                     | 0.10                               | 800                        |
| GBK201209T-800Y-N | 80                                   | 100                     | 0.10                               | 800                        |
| GBK201209T-121Y-N | 120                                  | 100                     | 0.15                               | 600                        |
| GBK201209T-151Y-N | 150                                  | 100                     | 0.15                               | 600                        |
| GBK201209T-221Y-N | 220                                  | 100                     | 0.18                               | 600                        |
| GBK201209T-301Y-N | 300                                  | 100                     | 0.18                               | 600                        |
| GBK201209T-401Y-N | 400                                  | 100                     | 0.18                               | 600                        |
| GBK201209T-501Y-N | 500                                  | 100                     | 0.25                               | 500                        |
| GBK201209T-601Y-N | 600                                  | 100                     | 0.25                               | 500                        |
| GBK201209T-751Y-N | 750                                  | 100                     | 0.30                               | 400                        |
| GBK201209T-102Y-N | 1,000                                | 100                     | 0.30                               | 400                        |
| GBK201209T-152Y-N | 1,500                                | 100                     | 0.40                               | 400                        |
| GBK201209T-202Y-N | 2,000                                | 100                     | 0.55                               | 400                        |

## ELECTRICAL CHARACTERISTICS GB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| GBY321611T-190Y-N | 19                                   | 100                     | 0.03                               | 1,000                      |
| GBY321611T-260Y-N | 26                                   | 100                     | 0.03                               | 1,000                      |
| GBY321611T-320Y-N | 32                                   | 100                     | 0.03                               | 1,000                      |
| GBY321611T-500Y-N | 50                                   | 100                     | 0.06                               | 800                        |
| GBY321611T-600Y-N | 60                                   | 100                     | 0.06                               | 800                        |
| GBK321611T-700Y-N | 70                                   | 100                     | 0.06                               | 800                        |
| GBK321611T-900Y-N | 90                                   | 100                     | 0.10                               | 800                        |
| GBK321611T-121Y-N | 120                                  | 100                     | 0.10                               | 800                        |
| GBK321611T-151Y-N | 150                                  | 100                     | 0.10                               | 800                        |
| GBK321611T-201Y-N | 200                                  | 100                     | 0.15                               | 600                        |
| GBK321611T-401Y-N | 400                                  | 100                     | 0.15                               | 600                        |
| GBK321611T-501Y-N | 500                                  | 100                     | 0.15                               | 600                        |
| GBK321611T-601Y-N | 600                                  | 100                     | 0.20                               | 500                        |
| GBK321611T-102Y-N | 1,000                                | 50                      | 0.25                               | 400                        |
| GBK321611T-122Y-N | 1,200                                | 50                      | 0.25                               | 400                        |
| GBK321611T-202Y-N | 2,000                                | 30                      | 0.35                               | 400                        |
| GBY321616T-250Y-N | 25                                   | 100                     | 0.10                               | 1,000                      |
| GBY321616T-600Y-N | 60                                   | 100                     | 0.10                               | 1,000                      |
| GBK321616T-700Y-N | 70                                   | 100                     | 0.10                               | 1,000                      |
| GBY322513T-320Y-N | 32                                   | 100                     | 0.10                               | 1,000                      |
| GBY322513T-600Y-N | 60                                   | 100                     | 0.10                               | 1,000                      |
| GBY322513T-900Y-N | 90                                   | 100                     | 0.10                               | 1,000                      |
| GBY451616T-500Y-N | 50                                   | 100                     | 0.10                               | 1,000                      |
| GBY451616T-600Y-N | 60                                   | 100                     | 0.10                               | 1,000                      |
| GBY451616T-800Y-N | 80                                   | 100                     | 0.10                               | 1,000                      |
| GBY451616T-101Y-N | 100                                  | 100                     | 0.18                               | 800                        |
| GBK451616T-151Y-N | 150                                  | 100                     | 0.18                               | 800                        |
| GBK451616T-171Y-N | 170                                  | 100                     | 0.18                               | 800                        |
| GBY453215T-700Y-N | 70                                   | 100                     | 0.18                               | 800                        |
| GBY453215T-121Y-N | 120                                  | 100                     | 0.18                               | 800                        |



## ELECTRICAL CHARACTERISTICS PB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| PBY100505T-100Y-N | 10                                   | 100                     | 0.030                              | 2,000                      |
| PBY100505T-300Y-N | 30                                   | 100                     | 0.050                              | 1,700                      |
| PBY100505T-400Y-N | 40                                   | 100                     | 0.075                              | 1,500                      |
| PBY100505T-600Y-N | 60                                   | 100                     | 0.075                              | 1,500                      |
| PBY100505T-700Y-N | 70                                   | 100                     | 0.090                              | 1,200                      |
| PBY100505T-800Y-N | 80                                   | 100                     | 0.090                              | 1,200                      |
| PBY100505T-121Y-N | 120                                  | 100                     | 0.090                              | 1,200                      |
| PBY160808T-110Y-N | 11                                   | 100                     | 0.020                              | 4,000                      |
| PBY160808T-250Y-N | 25                                   | 100                     | 0.030                              | 3,000                      |
| PBY160808T-400Y-N | 40                                   | 100                     | 0.035                              | 3,000                      |
| PBY160808T-600Y-N | 60                                   | 100                     | 0.040                              | 3,000                      |
| PBY160808T-121Y-N | 120                                  | 100                     | 0.080                              | 2,500                      |
| PBY160808T-151Y-N | 150                                  | 100                     | 0.085                              | 2,000                      |
| PBY160808T-181Y-N | 180                                  | 100                     | 0.090                              | 2,000                      |
| PBY160808T-201Y-N | 200                                  | 100                     | 0.095                              | 2,000                      |
| PBY160808T-301Y-N | 300                                  | 100                     | 0.120                              | 1,500                      |
| PBY160808T-501Y-N | 500                                  | 100                     | 0.150                              | 1,200                      |
| PBY160808T-601Y-N | 600                                  | 100                     | 0.200                              | 1,000                      |
| PBY160808T-102Y-N | 1,000                                | 100                     | 0.250                              | 800                        |
| PBY201209T-110Y-N | 11                                   | 100                     | 0.010                              | 6,000                      |
| PBY201209T-170Y-N | 17                                   | 100                     | 0.020                              | 5,000                      |
| PBY201209T-300Y-N | 30                                   | 100                     | 0.015                              | 4,000                      |
| PBY201209T-500Y-N | 50                                   | 100                     | 0.025                              | 3,000                      |
| PBY201209T-600Y-N | 60                                   | 100                     | 0.030                              | 3,000                      |
| PBY201209T-800Y-N | 80                                   | 100                     | 0.040                              | 3,000                      |
| PBY201209T-121Y-N | 120                                  | 100                     | 0.040                              | 3,000                      |
| PBY201209T-201Y-N | 200                                  | 100                     | 0.050                              | 2,500                      |
| PBY201209T-301Y-N | 300                                  | 100                     | 0.080                              | 2,000                      |
| PBY201209T-601Y-N | 600                                  | 100                     | 0.100                              | 2,000                      |
| PBY201209T-102Y-N | 1,000                                | 100                     | 0.120                              | 1,500                      |

## ELECTRICAL CHARACTERISTICS PB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| PBY321611T-190Y-N | 19                                   | 100                     | 0.015                              | 6,000                      |
| PBY321611T-320Y-N | 32                                   | 100                     | 0.015                              | 4,000                      |
| PBY321611T-500Y-N | 50                                   | 100                     | 0.020                              | 4,000                      |
| PBY321611T-800Y-N | 80                                   | 100                     | 0.025                              | 3,000                      |
| PBY321611T-101Y-N | 100                                  | 100                     | 0.030                              | 3,000                      |
| PBY321611T-121Y-N | 120                                  | 100                     | 0.030                              | 3,000                      |
| PBY321611T-221Y-N | 220                                  | 100                     | 0.050                              | 2,000                      |
| PBY321611T-301Y-N | 300                                  | 100                     | 0.060                              | 2,000                      |
| PBY321611T-601Y-N | 600                                  | 100                     | 0.100                              | 2,000                      |
| PBY321611T-102Y-N | 1,000                                | 50                      | 0.150                              | 1,200                      |
| PBY321611T-122Y-N | 1,200                                | 50                      | 0.180                              | 1,000                      |
| PBY321611T-152Y-N | 1,500                                | 50                      | 0.200                              | 800                        |
| PBY322513T-600Y-N | 60                                   | 100                     | 0.025                              | 4,000                      |
| PBY322513T-900Y-N | 90                                   | 100                     | 0.025                              | 3,000                      |
| PBY451616T-500Y-N | 50                                   | 100                     | 0.020                              | 6,000                      |
| PBY451616T-600Y-N | 60                                   | 100                     | 0.020                              | 5,000                      |
| PBY451616T-800Y-N | 80                                   | 100                     | 0.025                              | 4,000                      |
| PBY451616T-900Y-N | 90                                   | 100                     | 0.040                              | 4,000                      |
| PBY451616T-151Y-N | 150                                  | 100                     | 0.100                              | 2,000                      |
| PBY451616T-471Y-N | 470                                  | 100                     | 0.100                              | 2,000                      |
| PBY451616T-102Y-N | 1,000                                | 100                     | 0.100                              | 2,000                      |
| PBY453215T-700Y-N | 70                                   | 100                     | 0.030                              | 6,000                      |
| PBY453215T-121Y-N | 120                                  | 100                     | 0.030                              | 4,000                      |
| PBY453215T-151Y-N | 150                                  | 100                     | 0.028                              | 4,000                      |
| PBY453215T-601Y-N | 600                                  | 100                     | 0.028                              | 4,000                      |
| PBY453215T-132Y-N | 1,300                                | 100                     | 0.150                              | 1,500                      |

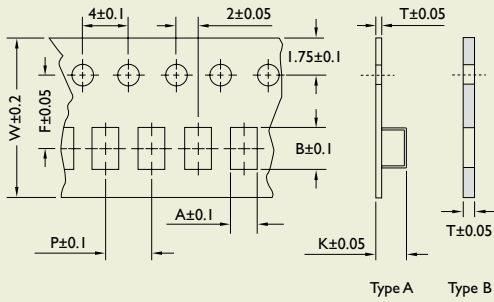


## ELECTRICAL CHARACTERISTICS UPB Series

| PART NO.          | IMPEDANCE<br>( $\Omega$ ) $\pm 25\%$ | TEST FREQUENCY<br>(MHz) | DC RESISTANCE<br>( $\Omega$ ) Max. | RATED CURRENT<br>(mA) Max. |
|-------------------|--------------------------------------|-------------------------|------------------------------------|----------------------------|
| UPB160808T-110Y-N | 11                                   | 100                     | 0.015                              | 4,500                      |
| UPB160808T-170Y-N | 17                                   | 100                     | 0.015                              | 4,500                      |
| UPB160808T-250Y-N | 25                                   | 100                     | 0.015                              | 4,500                      |
| UPB160808T-300Y-N | 30                                   | 100                     | 0.015                              | 4,500                      |
| UPB201209T-110Y-N | 11                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-150Y-N | 15                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-190Y-N | 19                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-260Y-N | 26                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-300Y-N | 30                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-330Y-N | 33                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-400Y-N | 40                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-500Y-N | 50                                   | 100                     | 0.015                              | 6,000                      |
| UPB201209T-600Y-N | 60                                   | 100                     | 0.020                              | 4,500                      |
| UPB201209T-800Y-N | 80                                   | 100                     | 0.020                              | 4,500                      |
| UPB201209T-101Y-N | 100                                  | 100                     | 0.020                              | 5,000                      |
| UPB201209T-121Y-N | 120                                  | 100                     | 0.020                              | 5,000                      |
| UPB201212T-600Y-N | 60                                   | 100                     | 0.020                              | 6,000                      |
| UPB201212T-700Y-N | 70                                   | 100                     | 0.020                              | 6,000                      |
| UPB201212T-800Y-N | 80                                   | 100                     | 0.020                              | 6,000                      |
| UPB201212T-101Y-N | 100                                  | 100                     | 0.025                              | 5,000                      |
| UPB201212T-121Y-N | 120                                  | 100                     | 0.025                              | 5,000                      |
| UPB321611T-110Y-N | 11                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-190Y-N | 19                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-260Y-N | 26                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-300Y-N | 30                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-400Y-N | 40                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-500Y-N | 50                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-600Y-N | 60                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-800Y-N | 80                                   | 100                     | 0.012                              | 6,000                      |
| UPB321611T-101Y-N | 100                                  | 100                     | 0.012                              | 6,000                      |
| UPB321611T-121Y-N | 120                                  | 100                     | 0.012                              | 6,000                      |
| UPB321611T-151Y-N | 150                                  | 100                     | 0.020                              | 4,500                      |
| UPB451616T-600Y-N | 100                                  | 60                      | 0.012                              | 7,000                      |
| UPB453215T-700Y-N | 100                                  | 70                      | 0.010                              | 9,000                      |

## TAPE DIMENSIONS

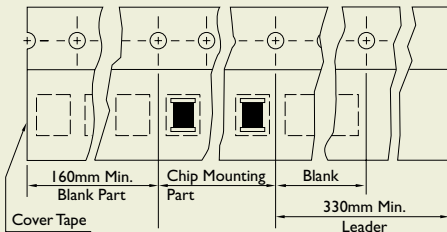
Unit: mm



| TYPE               |        | A    | B    | T    | W    | P   | F   | K    | TAPE TYPE |
|--------------------|--------|------|------|------|------|-----|-----|------|-----------|
| SB/NB/PB/HF        | 100505 | 0.65 | 1.15 | 0.60 | 8.0  | 2.0 | 3.5 | -    | B         |
| SB/NB/GB/PB/UPB/HF | 160808 | 1.05 | 1.85 | 0.95 | 8.0  | 4.0 | 3.5 | -    | B         |
| SB/NB/GB/PB/UPB    | 201209 | 1.50 | 2.30 | 0.97 | 8.0  | 4.0 | 3.5 | -    | B         |
| UPB                | 201212 | 1.35 | 2.25 | 0.22 | 8.0  | 4.0 | 3.5 | 1.35 | A         |
| SB/NB/GB/PB/UPB    | 321611 | 1.88 | 3.50 | 0.22 | 8.0  | 4.0 | 3.5 | 1.27 | A         |
| SB/GB              | 321616 | 1.88 | 3.53 | 0.22 | 8.0  | 4.0 | 3.5 | 1.80 | A         |
| SB/GB/PB           | 322513 | 2.77 | 3.42 | 0.22 | 8.0  | 4.0 | 3.5 | 1.55 | A         |
| SB/GB/PB/UPB       | 451616 | 1.93 | 4.95 | 0.24 | 12.0 | 4.0 | 5.5 | 1.93 | A         |
| SB/GB/PB/UPB       | 453215 | 3.66 | 4.95 | 0.24 | 12.0 | 8.0 | 5.5 | 1.85 | A         |

## TAPE MATERIAL

Carrier Tape : Polystyrene (Type A), Paper (Type B)  
Cover Tape : Polyethylene

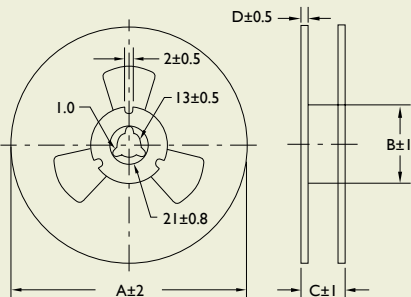


## PACKAGING QUANTITY

| TYPE               |        | QUANTITY/REEL |
|--------------------|--------|---------------|
| SB/NB/PB/HF        | 100505 | 10,000        |
| SB/NB/GB/PB/UPB/HF | 160808 | 4,000         |
| SB/NB/GB/PB/UPB    | 201209 | 4,000         |
| UPB                | 201212 | 3,000         |
| SB/NB/GB/PB/UPB    | 321611 | 3,000         |
| SB/GB              | 321616 | 2,000         |
| SB/GB/PB           | 322513 | 2,500         |
| SB/GB/PB/UPB       | 451616 | 2,000         |
| SB/GB/PB/UPB       | 453215 | 1,000         |

## REEL DIMENSIONS

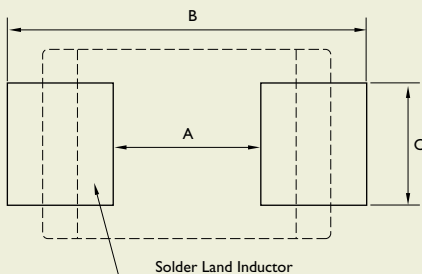
Unit: mm



| TYPE               |        | A   | B  | C  | D |
|--------------------|--------|-----|----|----|---|
| SB/NB/PB/HF        | 100505 | 178 | 60 | 12 | 2 |
| SB/NB/GB/PB/UPB/HF | 160808 | 178 | 60 | 12 | 2 |
| SB/NB/GB/PB/UPB    | 201209 | 178 | 60 | 12 | 2 |
| UPB                | 201212 | 178 | 60 | 12 | 2 |
| SB/NB/GB/PB/UPB    | 321611 | 178 | 60 | 12 | 2 |
| SB/GB              | 321616 | 178 | 60 | 12 | 2 |
| SB/GB/PB           | 322513 | 178 | 60 | 12 | 2 |
| SB/GB/PB/UPB       | 451616 | 178 | 60 | 14 | 2 |
| SB/GB/PB/UPB       | 453215 | 178 | 60 | 14 | 2 |

## RECOMMENDED PATTERN

Unit: mm



| TYPE               |        | A         | B         | C         |
|--------------------|--------|-----------|-----------|-----------|
| SB/NB/PB/HF        | 100505 | 0.4       | 1.2 ~ 1.4 | 0.5       |
| SB/NB/GB/PB/UPB/HF | 160808 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |
| SB/NB/GB/PB/UPB    | 201209 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| UPB                | 201212 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| SB/NB/GB/PB/UPB    | 321611 | 2         | 4.2 ~ 5.2 | 1.2       |
| SB/GB              | 321616 | 2         | 4.2 ~ 5.2 | 1.2       |
| SB/GB/PB           | 322513 | 2         | 5.5 ~ 6.5 | 1.8       |
| SB/GB/PB/UPB       | 451616 | 3         | 5.5 ~ 6.5 | 1.2       |
| SB/GB/PB/UPB       | 453215 | 3         | 5.5 ~ 6.5 | 2.4       |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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