

### 0402 Case Size Multilayer Chip Inductors for High Frequency (HK 1005 Series)

| Ordering code  | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q       |     |     |     |      | Self-resonant Frequency (MHz) |        | DC Resistance (Ω) |      | Maximum Rated Current (mA) |              | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------|-----------------|-----|-----|-----|------|-------------------------------|--------|-------------------|------|----------------------------|--------------|--------------------------|--------------------------------|
|                |                 |                      |        |                           | Frequency (MHz) |     |     |     |      | min.                          | typ.   | max.              | typ. | -55° to 125°C              | -55° to 85°C |                          |                                |
|                |                 |                      |        |                           | 100             | 300 | 500 | 800 | 1000 |                               |        |                   |      |                            |              |                          |                                |
| HK-1005-1N0STK | 1.0             | ±0.3nH               | 8      | 100                       | 11              | 25  | 34  | 43  | 52   | 10000                         | >13000 | 0.08              | 0.04 | 300                        | 900          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-1N2STK | 1.2             | ±0.3nH               | 8      | 100                       | 11              | 25  | 35  | 44  | 52   | 10000                         | >13000 | 0.09              | 0.04 | 300                        | 900          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-1N5STK | 1.5             | ±0.3nH               | 8      | 100                       | 11              | 24  | 33  | 44  | 48   | 6000                          | >13000 | 0.10              | 0.05 | 300                        | 850          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-1N8STK | 1.8             | ±0.3nH               | 8      | 100                       | 11              | 23  | 30  | 36  | 42   | 6000                          | 11000  | 0.12              | 0.06 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-2N0STK | 2               | ±0.3nH               | 8      | 100                       | 11              | 21  | 27  | 34  | 39   | 6000                          | 10500  | 0.12              | 0.06 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-2N2STK | 2.2             | ±0.3nH               | 8      | 100                       | 10              | 18  | 25  | 31  | 36   | 6000                          | 10000  | 0.13              | 0.07 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-2N4STK | 2.4             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 9500   | 0.13              | 0.07 | 300                        | 650          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-2N7STK | 2.7             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 6000                          | 9000   | 0.13              | 0.08 | 300                        | 650          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-3N0STK | 3               | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 8500   | 0.16              | 0.09 | 300                        | 600          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-3N3STK | 3.3             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 8000   | 0.16              | 0.10 | 300                        | 550          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-3N6STK | 3.6             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 5000                          | 7500   | 0.20              | 0.11 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-3N9STK | 3.9             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 4000                          | 7000   | 0.21              | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-4N3STK | 4.3             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 4000                          | 6500   | 0.20              | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-4N7STK | 4.7             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 4000                          | 6000   | 0.21              | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-5N1STK | 5.1             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 4000                          | 5800   | 0.21              | 0.13 | 300                        | 450          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-5N6STK | 5.6             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 30  | 35   | 4000                          | 5700   | 0.23              | 0.15 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-6N2STK | 6.2             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 30  | 34   | 3900                          | 5600   | 0.25              | 0.16 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-6N8JTK | 6.8             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 32   | 3900                          | 5500   | 0.25              | 0.17 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-7N5ITK | 7.5             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 32   | 3700                          | 5200   | 0.25              | 0.18 | 300                        | 400          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-8N2JTK | 8.2             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3600                          | 4900   | 0.28              | 0.21 | 300                        | 380          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-9N1JTK | 9.1             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3400                          | 4500   | 0.30              | 0.22 | 300                        | 360          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-10NJTK | 10              | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3200                          | 4300   | 0.31              | 0.23 | 300                        | 340          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-12NJTK | 12              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 29  | 31   | 2700                          | 3900   | 0.40              | 0.28 | 300                        | 330          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-15NJTK | 15              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 28  | 30   | 2300                          | 3500   | 0.46              | 0.31 | 300                        | 320          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-18NJTK | 18              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 28  | 30   | 2100                          | 3100   | 0.55              | 0.35 | 300                        | 310          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-22NJTK | 22              | ±5%                  | 8      | 100                       | 11              | 17  | 22  | 26  | 27   | 1900                          | 2800   | 0.60              | 0.42 | 300                        | 300          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-27NITK | 27              | ±5%                  | 8      | 100                       | 11              | 17  | 21  | 25  | 26   | 1600                          | 2300   | 0.70              | 0.47 | 300                        | 300          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-33NJTK | 33              | ±5%                  | 8      | 100                       | 11              | 16  | 20  | 23  | 22   | 1300                          | 1900   | 0.80              | 0.50 | 200                        | 250          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-39NJTK | 39              | ±5%                  | 8      | 100                       | 11              | 16  | 20  | 23  | 21   | 1200                          | 1700   | 0.90              | 0.52 | 200                        | 250          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-47NJTK | 47              | ±5%                  | 8      | 100                       | 11              | 16  | 19  | 21  | 18   | 1000                          | 1500   | 1.00              | 0.58 | 200                        | 230          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-56NJTK | 56              | ±5%                  | 8      | 100                       | 11              | 16  | 18  | 18  | 16   | 750                           | 1300   | 1.00              | 0.61 | 200                        | 220          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-68NJTK | 68              | ±5%                  | 8      | 100                       | 11              | 15  | 17  | 18  | 11   | 750                           | 1200   | 1.20              | 0.70 | 180                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-82NJTK | 82              | ±5%                  | 8      | 100                       | 10              | 14  | 16  | 15  | 6    | 600                           | 1100   | 1.30              | 0.81 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-R10JTK | 100             | ±5%                  | 8      | 100                       | 10              | 14  | 14  | 12  | -    | 600                           | 1000   | 1.50              | 0.94 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| HK-1005-R12JTK | 120             | ±5%                  | 8      | 100                       | 10              | 12  | 10  | -   | -    | 600                           | 800    | 1.60              | 1.10 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |