



## MF0603 SERIES – Multilayer Ceramic Chip Inductors



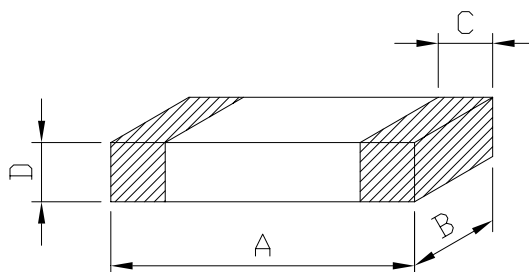
***New Products***

### PART NUMBERING SYSTEM

|           |                |   |                |   |           |
|-----------|----------------|---|----------------|---|-----------|
| <u>MF</u> | <u>0 6 0 3</u> | — | <u>1 N 0 S</u> | — | <u>LF</u> |
| TYPE      | DIMENSIONS     |   | INDUCTANCE     |   | LEAD FREE |

### SHAPES AND DIMENSIONS

UNIT : mm



**A=0.6±0.03 B=0.3±0.03 C=0.1~0.2 D=0.33 Max.**

### FEATURES

1. Provides high Q characteristics .
2. Supports operating frequency bands of up to 10GHZ .
3. Excellent solder ability and high heat resistance for either flow or reflow soldering .
4. **Size : 0201 type , Compact low profile Multilayer Ceramic Chip Inductors – only 0.33 mm thickness Max.**
5. **RoHS-compliant.**

### APPLICATION

1. Mobile phones .
2. Portable phones .
3. Cordless phones .
4. Pagers and personal handy-phone systems ( PHS ) .



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### SPECIFICATION TABLE

| PART NUMBER    | INDUCTANCE<br>(nH) 100MHz | INDUCTANCE<br>TOLERANCE | Q<br>( Min. )<br>100MHz | SRF (GHz)<br>Min. | Rated<br>Current(mA)<br>(Max.) | DCR( $\Omega$ )<br>(Max.) |
|----------------|---------------------------|-------------------------|-------------------------|-------------------|--------------------------------|---------------------------|
| MF0603-1N0S-LF | 1.0                       | S                       | 4                       | 10                | 250                            | 0.14                      |
| MF0603-1N2S-LF | 1.2                       | S                       | 4                       | 10                | 250                            | 0.14                      |
| MF0603-1N5S-LF | 1.5                       | S                       | 4                       | 10                | 230                            | 0.18                      |
| MF0603-1N8S-LF | 1.8                       | S                       | 4                       | 10                | 200                            | 0.19                      |
| MF0603-2N2S-LF | 2.2                       | S                       | 4                       | 8.8               | 200                            | 0.22                      |
| MF0603-2N7S-LF | 2.7                       | S                       | 5                       | 7.7               | 200                            | 0.25                      |
| MF0603-3N3□-LF | 3.3                       | S, K                    | 5                       | 6.7               | 180                            | 0.30                      |
| MF0603-3N9□-LF | 3.9                       | S, K                    | 5                       | 6.0               | 170                            | 0.30                      |
| MF0603-4N7□-LF | 4.7                       | S, K                    | 5                       | 5.3               | 150                            | 0.40                      |
| MF0603-5N1□-LF | 5.1                       | S, K                    | 5                       | 4.7               | 150                            | 0.40                      |
| MF0603-5N6□-LF | 5.6                       | S, K                    | 5                       | 4.2               | 150                            | 0.40                      |
| MF0603-6N8□-LF | 6.8                       | J, K                    | 5                       | 3.5               | 150                            | 0.50                      |
| MF0603-8N2□-LF | 8.2                       | J, K                    | 5                       | 3.2               | 150                            | 0.55                      |
| MF0603-10N□-LF | 10.0                      | J, K                    | 5                       | 2.8               | 150                            | 0.65                      |
| MF0603-12N□-LF | 12.0                      | J, K                    | 5                       | 2.4               | 100                            | 0.70                      |
| MF0603-15N□-LF | 15.0                      | J, K                    | 5                       | 2.2               | 100                            | 0.80                      |
| MF0603-18N□-LF | 18.0                      | J, K                    | 5                       | 2.1               | 100                            | 0.90                      |
| MF0603-22N□-LF | 22.0                      | J, K                    | 5                       | 1.8               | 100                            | 1.20                      |
| MF0603-27N□-LF | 27.0                      | J, K                    | 4                       | 1.8               | 50                             | 1.80                      |
| MF0603-33N□-LF | 33.0                      | J, K                    | 4                       | 1.7               | 50                             | 2.10                      |
| MF0603-39N□-LF | 39.0                      | J, K                    | 4                       | 1.5               | 50                             | 2.40                      |

- Test equipment : HP-4287A RF LCR Meter or equipment
- L & Q test Frequency at 100MHz
- □ : INDUCTANCE TOLERANCE ( J :  $\pm 5\%$ , K :  $\pm 10\%$ , S :  $\pm 0.3\text{nH}$  )

