



# MW2520 SERIES ~ Wire Wound Chip Inductors



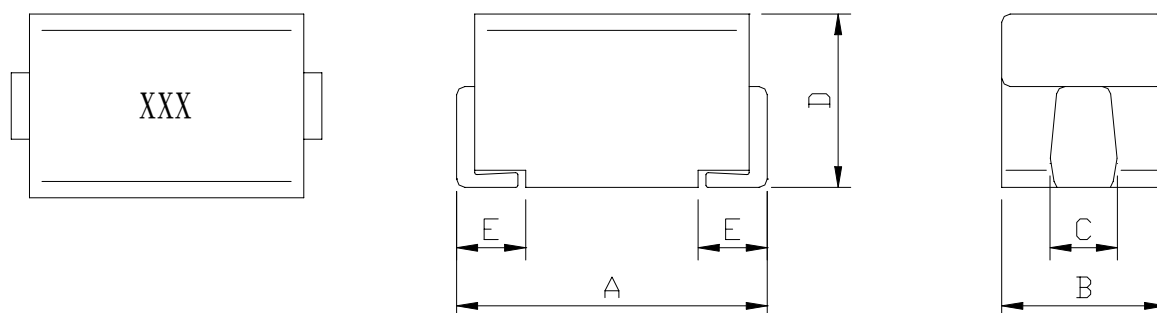
RoHS Compliant

## PART NUMBERING SYSTEM

|           |             |          |             |          |           |
|-----------|-------------|----------|-------------|----------|-----------|
| <b>MW</b> | <b>2520</b> | <b>—</b> | <b>1R0J</b> | <b>—</b> | <b>LF</b> |
| TYPE      | DIMENSIONS  |          | INDUCTANCE  |          | LEAD FREE |

## SHAPES AND DIMENSIONS

UNIT : mm



**A=2.5±0.2 B=2.0±0.2 C=1.4±0.1 D=1.8±0.2 E=0.45 Ref.**

## SPECIFICATION TABLE

| PART NUMBER    | INDUCTANCE<br>( $\mu$ H) | Q.<br>MIN. | TEST FREQ<br>(MHz) | SRF (MHz)<br>MIN. | DCR ( $\Omega$ )<br>(max) | IDC (mA)<br>(max) |
|----------------|--------------------------|------------|--------------------|-------------------|---------------------------|-------------------|
| MW2520-R12K-LF | 0.12±10%                 | 30         | 25.2               | 600               | 0.37                      | 520               |
| MW2520-R15K-LF | 0.15±10%                 | 30         | 25,2               | 550               | 0.42                      | 480               |
| MW2520-R18K-LF | 0.18±10%                 | 30         | 25.2               | 500               | 0.46                      | 460               |
| MW2520-R22K-LF | 0.22±10%                 | 30         | 25,2               | 450               | 0.52                      | 430               |
| MW2520-R27K-LF | 0.27±10%                 | 30         | 25.2               | 425               | 0.60                      | 420               |
| MW2520-R33K-LF | 0.33±10%                 | 30         | 25,2               | 400               | 0.65                      | 400               |
| MW2520-R39K-LF | 0.39±10%                 | 30         | 25.2               | 375               | 0.68                      | 375               |
| MW2520-R47K-LF | 0.47±10%                 | 30         | 25,2               | 350               | 0.75                      | 350               |
| MW2520-R56K-LF | 0.56±10%                 | 30         | 25.2               | 300               | 0.85                      | 325               |



## MW2520 SERIES ~ Wire Wound Chip Inductors



RoHS Compliant

SPECIFICATION TABLE

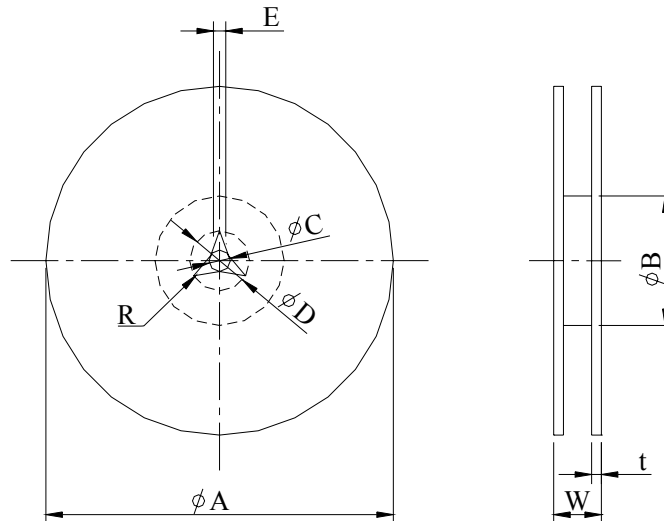
| PART NUMBER    | INDUCTANCE<br>( $\mu$ H) | Q.<br>MIN. | TEST FREQ<br>(MHz) | SRF (MHz)<br>MIN. | DCR ( $\Omega$ )<br>(max) | IDC (mA)<br>(max) |
|----------------|--------------------------|------------|--------------------|-------------------|---------------------------|-------------------|
| MW2520-R68K-LF | 0.68 $\pm$ 10%           | 30         | 25.2               | 270               | 0.85                      | 300               |
| MW2520-R82K-LF | 0.82 $\pm$ 10%           | 30         | 25.2               | 250               | 1.00                      | 260               |
| MW2520-1R0J-LF | 1.0 $\pm$ 5%             | 30         | 7.96               | 245               | 1.10                      | 245               |
| MW2520-1R2J-LF | 1.2 $\pm$ 5%             | 30         | 7.96               | 230               | 1.20                      | 230               |
| MW2520-1R5J-LF | 1.5 $\pm$ 5%             | 30         | 7.96               | 182               | 1.30                      | 220               |
| MW2520-1R8J-LF | 1.8 $\pm$ 5%             | 30         | 7.96               | 135               | 1.45                      | 210               |
| MW2520-2R2J-LF | 2.2 $\pm$ 5%             | 30         | 7.96               | 105               | 1.55                      | 200               |
| MW2520-2R7J-LF | 2.7 $\pm$ 5%             | 30         | 7.96               | 70                | 1.70                      | 195               |
| MW2520-3R3J-LF | 3.3 $\pm$ 5%             | 30         | 7.96               | 55                | 1.90                      | 185               |
| MW2520-3R9J-LF | 3.9 $\pm$ 5%             | 30         | 7.96               | 48                | 2.10                      | 180               |
| MW2520-4R7J-LF | 4.7 $\pm$ 5%             | 30         | 7.96               | 43                | 2.30                      | 175               |
| MW2520-5R6J-LF | 5.6 $\pm$ 5%             | 25         | 7.96               | 42                | 2.50                      | 170               |
| MW2520-6R8J-LF | 6.8 $\pm$ 5%             | 25         | 7.96               | 39                | 2.70                      | 165               |
| MW2520-8R2J-LF | 8.2 $\pm$ 5%             | 25         | 7.96               | 36                | 3.05                      | 160               |
| MW2520-100J-LF | 10.0 $\pm$ 5%            | 25         | 2.52               | 33                | 3.50                      | 155               |
| MW2520-120J-LF | 12.0 $\pm$ 5%            | 25         | 2.52               | 30                | 3.80                      | 150               |
| MW2520-150J-LF | 15.0 $\pm$ 5%            | 25         | 2.52               | 26                | 4.40                      | 140               |
| MW2520-180J-LF | 18.0 $\pm$ 5%            | 25         | 2.52               | 24                | 4.80                      | 130               |
| MW2520-220J-LF | 22.0 $\pm$ 5%            | 25         | 2.52               | 22                | 5.50                      | 125               |
| MW2520-270J-LF | 27.0 $\pm$ 5%            | 25         | 2.52               | 21                | 6.30                      | 115               |
| MW2520-330J-LF | 33.0 $\pm$ 5%            | 25         | 2.52               | 20                | 7.10                      | 110               |
| MW2520-390J-LF | 39.0 $\pm$ 5%            | 20         | 2.52               | 18                | 9.50                      | 90                |
| MW2520-470J-LF | 47.0 $\pm$ 5%            | 20         | 2.52               | 17                | 11.10                     | 80                |
| MW2520-560J-LF | 56.0 $\pm$ 5%            | 20         | 2.52               | 16                | 12.10                     | 75                |
| MW2520-680J-LF | 68.0 $\pm$ 5%            | 20         | 2.52               | 15                | 16.60                     | 70                |
| MW2520-820J-LF | 82.0 $\pm$ 5%            | 20         | 2.52               | 13                | 19.00                     | 66                |
| MW2520-101J-LF | 100 $\pm$ 5%             | 15         | 0.769              | 12                | 21.00                     | 60                |



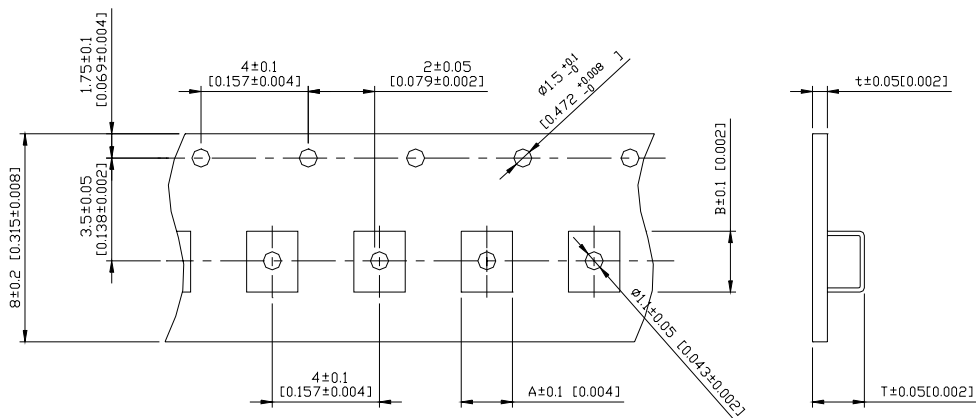
# MW2520 SERIES ~ Wire Wound Chip Inductors



## PACKAGING SPECIFICATION



|                            | A       | B      | C        | D        | E | W8     | W12      | t        | R |
|----------------------------|---------|--------|----------|----------|---|--------|----------|----------|---|
| <b>T(φ 178mm)<br/>Reel</b> | φ 178±2 | φ 60±1 | φ 13±0.8 | φ 21±0.8 | 2 | 10±1.5 | 14.5±1.5 | 1.27±0.2 | 1 |



| TYPE          | A    | B    | T    | t   | T(φ 178mm)    | T(φ 330mm) |
|---------------|------|------|------|-----|---------------|------------|
| <b>MW2520</b> | 1.90 | 3.50 | 1.40 | 0.2 | 3000 pcs/reel | -          |