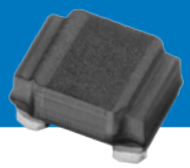
# Wire Wound Chip Ferrite Inductor – SDWL – FW Series



Operating temp. : -40°C ~+85°C

## FEATURES

- Small chip suitable for surface mounting
- High inductance with ferrite material

## APPLICATIONS

- liquid crystal television and other electronic devices

## PRODUCT IDENTIFICATION

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| SDWL | 2012 | FW | R27 | J | S | T | F |

**1 Type**

| | |
|---|---|
| SDWL | Wire Wound Chip Inductor |

**2 External Dimensions**

| | |
|---|---|
| 2012 [0805] | 2.29×1.73 |
| 2520 [1008] | 2.92×2.79 |
| 3216 [1206] | 3.56×2.16 |
| 3225 [1210] | 3.65×2.95 |

**3 Material Code**

| | |
|---|---|
| FW | 铁氧体 Ferrite |

**4 Nominal Inductance**

| Example | Nominal Value |
|---|---|
| R27 | 270nH |
| 2R7 | 2.7μH |
| 100 | 10μH |

**5 Inductance Tolerance**

| | |
|---|---|
| J | ±5% |
| K | ±10% |
| M | ±20% |

**6 Feature Type**

| | |
|---|---|
| S | Sn Plating Five-faces Coating |

**7 Packing**

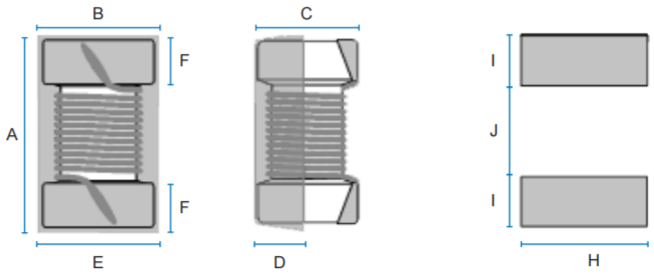
| | |
|---|---|
| T | Tape & Reel |

**8 Hazardous SubstanceFree Products**

| |
|---|
| F |

## SHAPE AND DIMENSIONS

SDWL2012/2520/3216/3225FW Type




| Series | A Max. | B Max. | C Max. | D Ref. | E | F | H Ref. | I Ref. | J Ref. |
|---|---|---|---|---|---|---|---|---|---|
| SDWL2012FW | 2.29 | 1.73 | 1.55 | 0.51 | 1.27±0.2 | 0.51±0.2 | 1.78 | 1.02 | 0.76 |
| SDWL2520FW | 2.92 | 2.79 | 2.29 | 0.51 | 2.10±0.2 | 0.50±0.2 | 2.54 | 1.02 | 1.27 |
| SDWL3216FW | 3.56 | 2.16 | 1.52 | 0.51 | 1.60±0.2 | 0.50±0.2 | 1.93 | 1.02 | 1.78 |
| SDWL3225FW | 3.65 | 2.95 | 2.70 | 0.51 | 2.40±0.2 | 0.50±0.2 | 3.02 | 1.02 | 1.78 |

Unit: mm

## SPECIFICATIONS

SDWL2012FW TYPE

| Part Number | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Min. Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | μH | - | - | MHz | MHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| SDWL2012FWR27 ☐ STF | 0.27 | J,K,M | 15 | 25 | 550 | 0.91 | 350 |
| SDWL2012FWR47 ☐ STF | 0.47 | J,K,M | 8 | 100 | 500 | 0.72 | 300 |
| SDWL2012FWR56 ☐ STF | 0.56 | J,K,M | 15 | 25 | 360 | 0.60 | 145 |
| SDWL2012FW1R0 ☐ STF | 1.0 | J,K,M | 15 | 7.9 | 63 | 1.20 | 245 |
| SDWL2012FW1R5 ☐ STF | 1.5 | J,K,M | 15 | 7.9 | 60 | 1.45 | 225 |
| SDWL2012FW1R8 ☐ STF | 1.8 | J,K,M | 15 | 7.9 | 60 | 1.45 | 200 |
| SDWL2012FW2R2 ☐ STF | 2.2 | J,K,M | 10 | 7.9/50 | 200 | 2.50 | 100 |
| SDWL2012FW3R3 ☐ STF | 3.3 | J,K,M | 15 | 7.9 | 50 | 2.30 | 175 |
| SDWL2012FW3R9 ☐ STF | 3.9 | J,K,M | 10 | 7.9 | 50 | 2.50 | 80 |
| SDWL2012FW4R7 ☐ STF | 4.7 | J,K,M | 15 | 7.9 | 43 | 2.80 | 140 |
| SDWL2012FW6R8 ☐ STF | 6.8 | J,K,M | 15 | 7.9 | 36 | 3.40 | 115 |
| SDWL2012FW8R2 ☐ STF | 8.2 | J,K,M | 10 | 7.9/2.5 | 35 | 4.50 | 100 |
| SDWL2012FW100 ☐ STF | 10 | J,K,M | 10 | 2.5 | 30 | 4.70 | 98 |
| SDWL2012FW150 ☐ STF | 15 | J,K,M | 10 | 2.5 | 23 | 6.50 | 80 |
| SDWL2012FW220 ☐ STF | 22 | J,K,M | 10 | 2.5 | 20 | 8.00 | 68 |
| SDWL2012FW330 ☐ STF | 33 | J,K,M | 10 | 2.5 | 17 | 10.70 | 60 |
| SDWL2012FW470 ☐ STF | 47 | J,K,M | 10 | 2.5 | 14 | 13.80 | 55 |
| SDWL2012FW680 ☐ STF | 68 | J,K,M | 8 | 2.5 | 11 | 17.50 | 40 |

SDWL2520FW TYPE

| Part Number | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Min. Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | μH | - | - | MHz | MHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| SDWL2520FWR33 ☐ STF | 0.33 | J,K,M | 50 | 25/100 | 600 | 0.17 | 700 |
| SDWL2520FW1R0 ☐ STF | 1.0 | J,K,M | 20 | 7.9/50 | 250 | 0.80 | 600 |
| SDWL2520FW1R2 ☐ STF | 1.2 | J,K,M | 37 | 7.9/50 | 250 | 0.80 | 650 |
| SDWL2520FW1R5 ☐ STF | 1.5 | J,K,M | 35 | 7.9/50 | 190 | 0.76 | 630 |
| SDWL2520FW1R8 ☐ STF | 1.8 | J,K,M | 33 | 7.9/50 | 170 | 0.84 | 600 |
| SDWL2520FW2R2 ☐ STF | 2.2 | J,K,M | 30 | 7.9/50 | 150 | 1.15 | 520 |
| SDWL2520FW2R7 ☐ STF | 2.7 | J,K,M | 25 | 7.9/50 | 120 | 1.30 | 490 |
| SDWL2520FW3R3 ☐ STF | 3.3 | J,K,M | 23 | 7.9/50 | 100 | 1.70 | 450 |
| SDWL2520FW3R9 ☐ STF | 3.9 | J,K,M | 26 | 7.9/25 | 100 | 2.00 | 420 |
| SDWL2520FW4R7 ☐ STF | 4.7 | J,K,M | 31 | 7.9 | 60 | 1.68 | 400 |
| SDWL2520FW5R6 ☐ STF | 5.6 | J,K,M | 23 | 7.9 | 80 | 2.65 | 380 |
| SDWL2520FW6R8 ☐ STF | 6.8 | J,K,M | 20 | 7.9 | 60 | 3.00 | 360 |
| SDWL2520FW8R2 ☐ STF | 8.2 | J,K,M | 20 | 7.9 | 40 | 3.30 | 330 |
| SDWL2520FW100 ☐ STF | 10 | J,K,M | 15 | 7.9 | 40 | 2.95 | 300 |

SDWL3216FW TYPE

| Part Number | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Min. Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | μH | - | - | MHz | MHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| SDWL3216FW1R5 ☐ STF | 1.5 | J, K, M | 25 | 7.9 | 260 | 1.20 | 320 |
| SDWL3216FW1R8 ☐ STF | 1.8 | J, K, M | 25 | 7.9 | 250 | 1.20 | 320 |
| SDWL3216FW2R2 ☐ STF | 2.2 | J, K, M | 25 | 7.9 | 240 | 1.30 | 300 |
| SDWL3216FW2R7 ☐ STF | 2.7 | J, K, M | 25 | 7.9 | 230 | 1.40 | 300 |
| SDWL3216FW3R3 ☐ STF | 3.3 | J, K, M | 25 | 7.9 | 200 | 1.50 | 280 |
| SDWL3216FW3R9 ☐ STF | 3.9 | J, K, M | 25 | 7.9 | 190 | 1.90 | 280 |

**SPECIFICATIONS** SDWL3216FW TYPE

| Part Number | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Min. Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | μH | - | - | MHz | MHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| SDWL3216FW4R7 ☐ STF | 4.7 | J, K, M | 25 | 7.9 | 170 | 2.20 | 280 |
| SDWL3216FW5R6 ☐ STF | 5.6 | J, K, M | 25 | 7.9 | 160 | 2.40 | 260 |
| SDWL3216FW6R8 ☐ STF | 6.8 | J, K, M | 25 | 7.9 | 150 | 2.80 | 240 |
| SDWL3216FW8R2 ☐ STF | 8.2 | J, K, M | 25 | 7.9 | 130 | 3.10 | 220 |
| SDWL3216FW100 ☐ STF | 10.0 | J, K, M | 25 | 7.9 | 120 | 4.00 | 200 |
| SDWL3216FW120 ☐ STF | 12.0 | J, K, M | 18 | 2.5 | 110 | 4.60 | 200 |
| SDWL3216FW150 ☐ STF | 15.0 | J, K, M | 16 | 2.5 | 90 | 8.20 | 160 |
| SDWL3216FW180 ☐ STF | 18.0 | J, K, M | 16 | 2.5 | 80 | 9.00 | 130 |

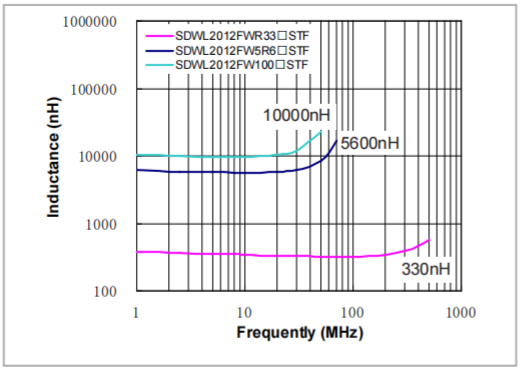
SDWL3225FW TYPE

| Part Number | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Min. Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | μH | - | - | MHz | MHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| SDWL3225FWR12 ☐ STF | 0.12 | J, K, M | 30 | 25 | 500 | 0.22 | 450 |
| SDWL3225FWR15 ☐ STF | 0.15 | J, K, M | 30 | 25 | 450 | 0.40 | 450 |
| SDWL3225FWR18 ☐ STF | 0.18 | J, K, M | 30 | 25 | 400 | 0.28 | 450 |
| SDWL3225FWR22 ☐ STF | 0.22 | J, K, M | 30 | 25 | 350 | 0.32 | 450 |
| SDWL3225FWR27 ☐ STF | 0.27 | J, K, M | 30 | 25 | 320 | 0.36 | 450 |
| SDWL3225FWR33 ☐ STF | 0.33 | J, K, M | 30 | 25 | 300 | 0.40 | 450 |
| SDWL3225FWR39 ☐ STF | 0.39 | J, K, M | 30 | 25 | 250 | 0.45 | 450 |
| SDWL3225FWR47 ☐ STF | 0.47 | J, K, M | 30 | 25 | 220 | 0.50 | 450 |
| SDWL3225FWR56 ☐ STF | 0.56 | J, K, M | 30 | 25 | 180 | 0.55 | 450 |
| SDWL3225FWR68 ☐ STF | 0.68 | J, K, M | 30 | 25 | 160 | 0.60 | 450 |
| SDWL3225FWR82 ☐ STF | 0.82 | J, K, M | 30 | 25 | 140 | 0.65 | 450 |
| SDWL3225FW1R0 ☐ STF | 1.0 | J, K, M | 30 | 7.9 | 120 | 0.70 | 400 |
| SDWL3225FW1R2 ☐ STF | 1.2 | J, K, M | 30 | 7.9 | 100 | 0.75 | 390 |
| SDWL3225FW1R5 ☐ STF | 1.5 | J, K, M | 30 | 7.9 | 85 | 0.85 | 370 |
| SDWL3225FW1R8 ☐ STF | 1.8 | J, K, M | 30 | 7.9 | 80 | 0.90 | 350 |
| SDWL3225FW2R2 ☐ STF | 2.2 | J, K, M | 30 | 7.9 | 75 | 1.00 | 320 |
| SDWL3225FW2R7 ☐ STF | 2.7 | J, K, M | 30 | 7.9 | 70 | 1.10 | 290 |
| SDWL3225FW3R3 ☐ STF | 3.3 | J, K, M | 30 | 7.9 | 60 | 1.20 | 260 |
| SDWL3225FW3R9 ☐ STF | 3.9 | J, K, M | 30 | 7.9 | 55 | 1.30 | 250 |
| SDWL3225FW4R7 ☐ STF | 4.7 | J, K, M | 30 | 7.9 | 50 | 1.50 | 224 |
| SDWL3225FW5R6 ☐ STF | 5.6 | J, K, M | 30 | 7.9 | 45 | 1.60 | 204 |
| SDWL3225FW6R8 ☐ STF | 6.8 | J, K, M | 30 | 7.9 | 40 | 1.80 | 180 |
| SDWL3225FW8R2 ☐ STF | 8.2 | J, K, M | 30 | 7.9 | 35 | 2.00 | 170 |
| SDWL3225FW100 ☐ STF | 10 | J, K, M | 25 | 7.9 | 30 | 2.10 | 150 |
| SDWL3225FW120 ☐ STF | 12 | J, K, M | 25 | 7.9 | 20 | 2.50 | 140 |

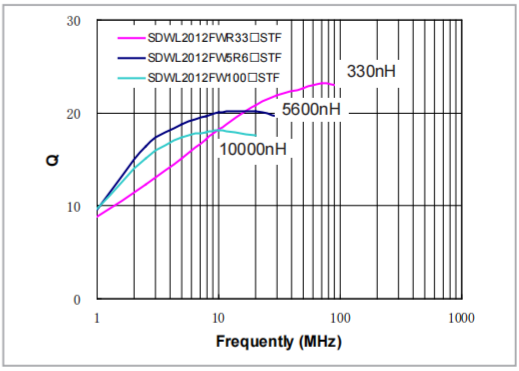
**TYPICAL ELECTRICAL CHARACTERISTICS**

SDWL2012FW TYPE

Inductance vs. Frequency Characteristics

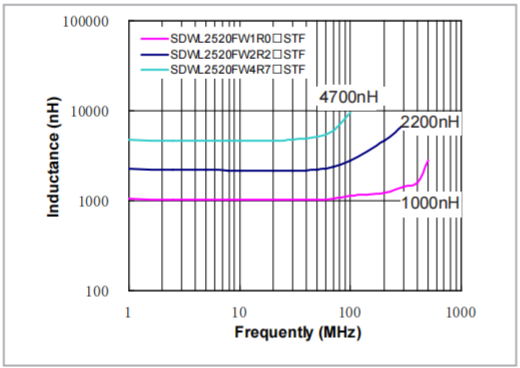



Q vs. Frequency Characteristics

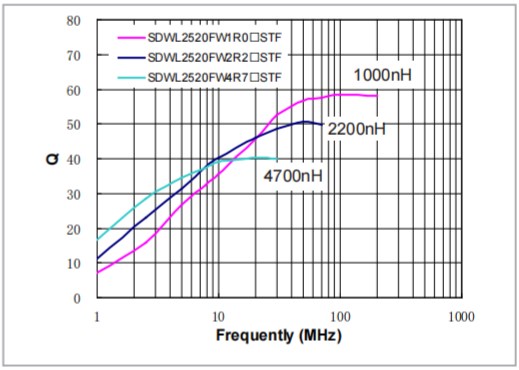



SDWL2520FW TYPE

Inductance vs. Frequency Characteristics

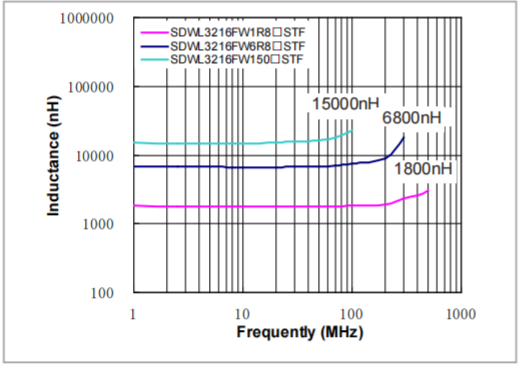



Q vs. Frequency Characteristics

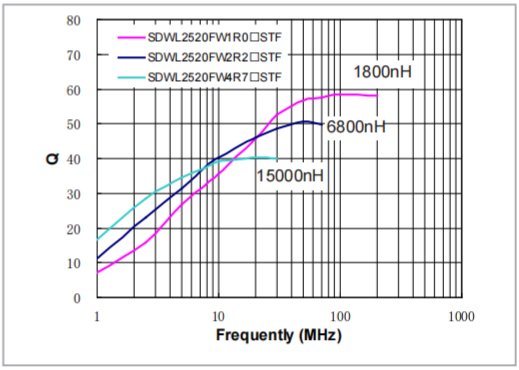



SDWL3216FW TYPE

Inductance vs. Frequency Characteristics

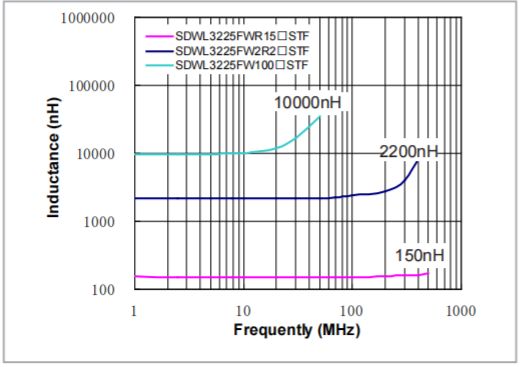



Q vs. Frequency Characteristics

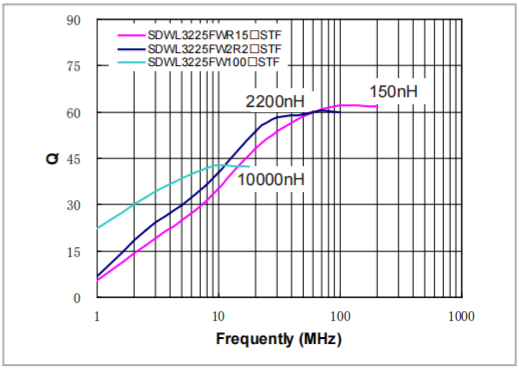



SDWL3225FW TYPE

Inductance vs. Frequency Characteristics




Q vs. Frequency Characteristics



单击下面可查看定价，库存，交付和生命周期等信息

>>Sunlord(顺络)