

EMI/EMC Solution Parts
DIP / Chip Inductors



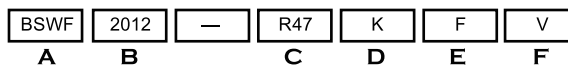
BSW-F series

FEATURES

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. The products contain no lead and also support lead-free soldering.



PARTNUMBER



A: Series

B: Dimension

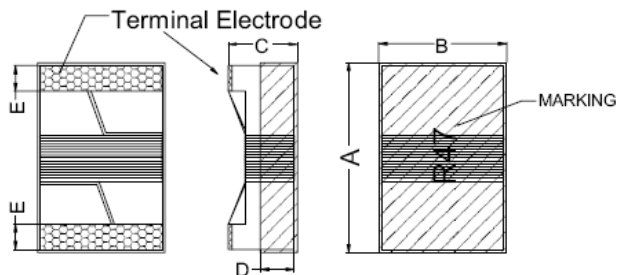
C: Inductance R47=0.47uH

D: Inductance Tolerance S=±0.3nH,
 J=±5%, K=±10%

E: Lead Free Code

F: ID CODE

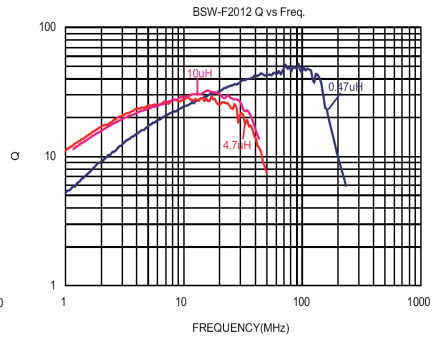
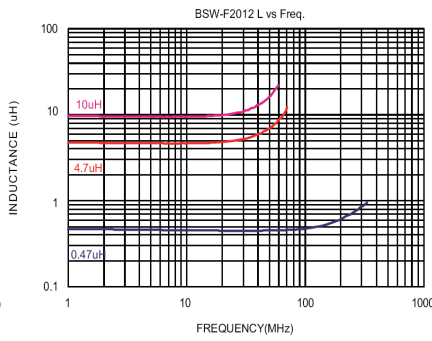
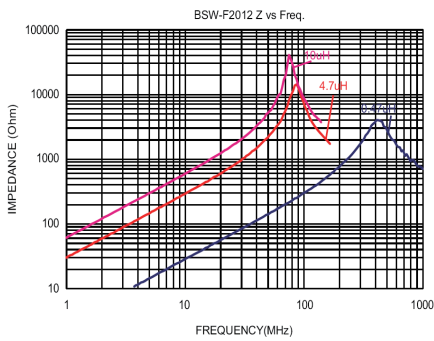
DIMENSIONS



| Size | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|------|-----------|-----------|-----------|-----------|----------|
| 2012 | 2.40 max. | 1.60 max. | 1.40 max. | 0.51 ref. | 0.44±0.1 |
| 2520 | 2.90 max. | 2.50 max. | 2.10 max. | 1.20 ref. | 0.55±0.1 |
| 3225 | 3.60 max. | 2.80 max. | 2.60 max. | 0.80 ref. | 0.55±0.1 |

BSWF 2012

| BW Part Number | Inductance (μH) | Percent Tolerance | Q | DCR | S.R.F. | Rated Current (mA) max. |
|----------------|------------------------------|-------------------|--------------|----------------|----------|-------------------------|
| | | | min | Max.m Ω | Min(MHz) | |
| BSWF2012-R47X | 0.47 @ 25 MHz | K, J | 45 @ 100MHz | 0.95 | 375 | 500 |
| BSWF2012-R56X | 0.56 @ 25 MHz | K, J | 45 @ 100MHz | 1.10 | 340 | 450 |
| BSWF2012-R68X | 0.68 @ 25 MHz | K, J | 35 @ 100MHz | 1.20 | 188 | 400 |
| BSWF2012-R82X | 0.82 @ 25 MHz | K, J | 35 @ 100MHz | 1.50 | 215 | 300 |
| BSWF2012-1R0X | 1.0 @ 25 MHz | K, J | 35 @ 50MHz | 2.13 | 200 | 180 |
| BSWF2012-1R2X | 1.2 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 2.60 | 200 | 150 |
| BSWF2012-1R5X | 1.5 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 2.90 | 200 | 130 |
| BSWF2012-1R8X | 1.8 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.00 | 120 | 120 |
| BSWF2012-2R2X | 2.2 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.10 | 110 | 110 |
| BSWF2012-2R7X | 2.7 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.50 | 100 | 100 |
| BSWF2012-3R3X | 3.3 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 2.30 | 70 | 210 |
| BSWF2012-3R9X | 3.9 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 2.50 | 60 | 200 |
| BSWF2012-4R7X | 4.7 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 2.80 | 50 | 180 |
| BSWF2012-5R6X | 5.6 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.00 | 45 | 160 |
| BSWF2012-6R8X | 6.8 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.20 | 45 | 130 |
| BSWF2012-8R2X | 8.2 @ 7.96 MHz | K, J | 15 @ 7.96MHz | 3.50 | 40 | 120 |
| BSWF2012-100X | 10 @ 2.52 MHz | K, J | 15 @ 7.96MHz | 5.00 | 40 | 80 |



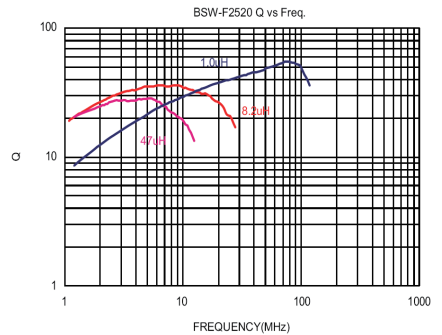
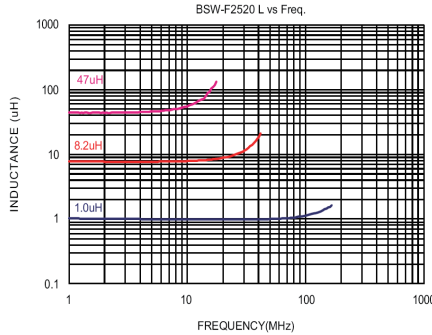
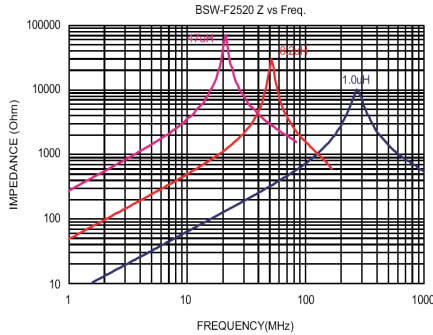
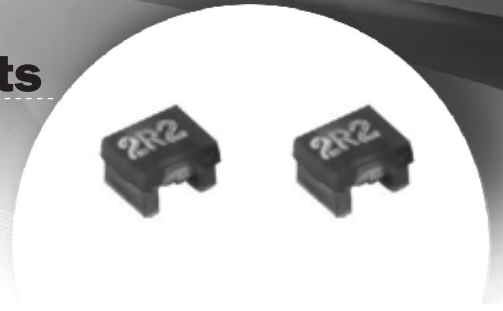
BSWF 2520

| BW Part Number | Inductance (μH) | Percent Tolerance | Q | DCR | S.R.F. | Rated Current (mA) max. |
|----------------|------------------------------|-------------------|---------------|----------------|----------|-------------------------|
| | | | min | Max.m Ω | Min(MHz) | |
| BSWF2520-1R0X | 1.0 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 0.80 | 285 | 400 |
| BSWF2520-1R2X | 1.2 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 1.30 | 280 | 230 |
| BSWF2520-1R5X | 1.5 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 1.65 | 250 | 220 |
| BSWF2520-1R8X | 1.8 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.20 | 200 | 210 |
| BSWF2520-2R2X | 2.2 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.35 | 160 | 200 |
| BSWF2520-2R7X | 2.7 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.60 | 130 | 195 |
| BSWF2520-3R3X | 3.3 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.85 | 80 | 185 |
| BSWF2520-3R9X | 3.9 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 4.00 | 50 | 180 |
| BSWF2520-4R7X | 4.7 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 4.30 | 45 | 175 |
| BSWF2520-5R6X | 5.6 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.60 | 42 | 170 |
| BSWF2520-6R8X | 6.8 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.80 | 39 | 165 |
| BSWF2520-8R2X | 8.2 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 3.05 | 36 | 160 |
| BSWF2520-100X | 10 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 3.50 | 33 | 150 |
| BSWF2520-120X | 12 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 3.60 | 30 | 140 |
| BSWF2520-150X | 15 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 4.00 | 26 | 130 |
| BSWF2520-180X | 18 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 4.50 | 24 | 120 |
| BSWF2520-220X | 22 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 5.00 | 22 | 110 |
| BSWF2520-270X | 27 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 6.00 | 21 | 95 |
| BSWF2520-330X | 33 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 6.50 | 20 | 85 |
| BSWF2520-390X | 39 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 8.50 | 18 | 60 |
| BSWF2520-470X | 47 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 14.00 | 17 | 45 |
| BSWF2520-560X | 56 @ 2.52 MHz | K, J | 20 @ 2.52 MHz | 9.18 | 16 | 95 |
| BSWF2520-680X | 68 @ 2.52 MHz | K, J | 20 @ 2.52 MHz | 9.61 | 14 | 90 |
| BSWF2520-820X | 82 @ 2.52 MHz | K, J | 20 @ 2.52 MHz | 11.54 | 12 | 80 |



EMI/EMC Solution Parts

SMD /Chip Inductors



BSWF 3225

| BW Part Number | Inductance (μH) | Percent Tolerance | Q | DCR | S.R.F. | Rated Current (mA) |
|----------------|------------------------------|-------------------|---------------|-------|--------|--------------------|
| | | | min | | | |
| BSWF3225-1R0X | 1 @ 2.52 MHz | K, J | 30 @ 2.52 MHz | 0.54 | 239 | 630 |
| BSWF3225-1R2X | 1.2 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 0.70 | 100 | 390 |
| BSWF3225-1R5X | 1.5 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 0.75 | 85 | 370 |
| BSWF3225-1R8X | 1.8 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 0.80 | 80 | 350 |
| BSWF3225-2R2X | 2.2 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 0.90 | 75 | 320 |
| BSWF3225-2R7X | 2.7 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 1.10 | 70 | 290 |
| BSWF3225-3R3X | 3.3 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 1.40 | 60 | 260 |
| BSWF3225-3R9X | 3.9 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 1.70 | 55 | 250 |
| BSWF3225-4R7X | 4.7 @ 7.96 MHz | K, J | 30 @ 7.96 MHz | 2.30 | 50 | 220 |
| BSWF3225-5R6X | 5.6 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 1.60 | 47 | 200 |
| BSWF3225-6R8X | 6.8 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.20 | 43 | 180 |
| BSWF3225-8R2X | 8.2 @ 7.96 MHz | K, J | 20 @ 7.96 MHz | 2.40 | 40 | 170 |
| BSWF3225-100X | 10 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 3.28 | 36 | 150 |
| BSWF3225-120X | 12 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 3.40 | 33 | 140 |
| BSWF3225-150X | 15 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 3.90 | 30 | 125 |
| BSWF3225-180X | 18 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 4.20 | 27 | 110 |
| BSWF3225-220X | 22 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 6.00 | 25 | 90 |
| BSWF3225-270X | 27 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 6.80 | 20 | 80 |
| BSWF3225-330X | 33 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 7.50 | 17 | 70 |
| BSWF3225-390X | 39 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 8.00 | 16 | 65 |
| BSWF3225-470X | 47 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 8.50 | 15 | 60 |
| BSWF3225-560X | 56 @ 2.52 MHz | K, J | 25 @ 2.52 MHz | 4.36 | 20 | 190 |
| BSWF3225-680X | 68 @ 2.52 MHz | K, J | 25 @ 2.52 MHz | 4.73 | 18 | 180 |
| BSWF3225-820X | 82 @ 2.52 MHz | K, J | 25 @ 2.52 MHz | 5.95 | 16 | 160 |
| BSWF3225-101X | 100 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 6.62 | 14 | 150 |
| BSWF3225-121X | 120 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 7.33 | 12 | 140 |
| BSWF3225-151X | 150 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 8.29 | 11 | 135 |
| BSWF3225-181X | 180 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 11.53 | 10 | 100 |
| BSWF3225-221X | 220 @ 2.52 MHz | K, J | 15 @ 2.52 MHz | 12.48 | 8 | 80 |

