

## Obsolescence of 4445 & 4445R, Radial Leaded Toroidal Inductor

**Description of Change:** Delevan announces the end of life for our 4445 & 4445R series, Radial leaded, Toroidal Inductor. Low market demand and supply chain closure has resulted in the decision to remove this series from our product offering.

**Delevan P/N:**

| OBSOLETE PART NUMBER | DESCRIPTION  | OBSOLETE PART NUMBER | DESCRIPTION  |
|----------------------|--|----------------------|--|
| 4445-01K             | Radial Leaded, Radial Toroidal Inductor, .01 uH , +/- 10%  | 4445R-01K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .01 uH , +/- 10%  |
| 4445-01M             | Radial Leaded, Radial Toroidal Inductor, .01 uH , +/- 20%  | 4445R-01M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .01 uH , +/- 20%  |
| 4445-02K             | Radial Leaded, Radial Toroidal Inductor, .012 uH , +/- 10% | 4445R-02K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .012 uH , +/- 10% |
| 4445-02M             | Radial Leaded, Radial Toroidal Inductor, .012 uH , +/- 20% | 4445R-02M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .012 uH , +/- 20% |
| 4445-03K             | Radial Leaded, Radial Toroidal Inductor, .015 uH , +/- 10% | 4445R-03K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .015 uH , +/- 10% |
| 4445-03M             | Radial Leaded, Radial Toroidal Inductor, .015 uH , +/- 20% | 4445R-03M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .015 uH , +/- 20% |
| 4445-04K             | Radial Leaded, Radial Toroidal Inductor, .018 uH , +/- 10% | 4445R-04K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .018 uH , +/- 10% |

| OBSOLETE PART NUMBER | DESCRIPTION  | OBSOLETE PART NUMBER | DESCRIPTION  |
|----------------------|--|----------------------|--|
| 4445-04M             | Radial Leaded, Radial Toroidal Inductor, .018 uH , +/- 20% | 4445R-04M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .018 uH , +/- 20% |
| 4445-05K             | Radial Leaded, Radial Toroidal Inductor, .022 uH , +/- 10% | 4445R-05K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .022 uH , +/- 10% |
| 4445-05M             | Radial Leaded, Radial Toroidal Inductor, .022 uH , +/- 20% | 4445R-05M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .022 uH , +/- 20% |
| 4445-06K             | Radial Leaded, Radial Toroidal Inductor, .027 uH , +/- 10% | 4445R-06K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .027 uH , +/- 10% |
| 4445-06M             | Radial Leaded, Radial Toroidal Inductor, .027 uH , +/- 20% | 4445R-06M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .027 uH , +/- 20% |
| 4445-07K             | Radial Leaded, Radial Toroidal Inductor, .033 uH , +/- 10% | 4445R-07K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .033 uH , +/- 10% |
| 4445-07M             | Radial Leaded, Radial Toroidal Inductor, .033 uH , +/- 20% | 4445R-07M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .033 uH , +/- 20% |
| 4445-08K             | Radial Leaded, Radial Toroidal Inductor, .039 uH , +/- 10% | 4445R-08K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .039 uH , +/- 10% |
| 4445-08M             | Radial Leaded, Radial Toroidal Inductor, .039 uH , +/- 20% | 4445R-08M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .039 uH , +/- 20% |
| 4445-09K             | Radial Leaded, Radial Toroidal Inductor, .047 uH , +/- 10% | 4445R-09K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .047 uH , +/- 10% |

| OBSOLETE PART NUMBER | DESCRIPTION  | OBSOLETE PART NUMBER | DESCRIPTION  |
|----------------------|--|----------------------|--|
| 4445-09M             | Radial Leaded, Radial Toroidal Inductor, .047 uH , +/- 20% | 4445R-09M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .047 uH , +/- 20% |
| 4445-10K             | Radial Leaded, Radial Toroidal Inductor, .056 uH , +/- 10% | 4445R-10K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .056 uH , +/- 10% |
| 4445-10M             | Radial Leaded, Radial Toroidal Inductor, .056 uH , +/- 20% | 4445R-10M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .056 uH , +/- 20% |
| 4445-11K             | Radial Leaded, Radial Toroidal Inductor, .068 uH , +/- 10% | 4445R-11K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .068 uH , +/- 10% |
| 4445-11M             | Radial Leaded, Radial Toroidal Inductor, .068 uH , +/- 20% | 4445R-11M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .068 uH , +/- 20% |
| 4445-12K             | Radial Leaded, Radial Toroidal Inductor, .082 uH , +/- 10% | 4445R-12K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .082 uH , +/- 10% |
| 4445-12M             | Radial Leaded, Radial Toroidal Inductor, .082 uH , +/- 20% | 4445R-12M            | RoHS, Radial Leaded, Radial Toroidal Inductor, .082 uH , +/- 20% |
| 4445-13J             | Radial Leaded, Radial Toroidal Inductor, .1 uH , +/- 5%    | 4445R-13J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .1 uH , +/- 5%    |
| 4445-13K             | Radial Leaded, Radial Toroidal Inductor, .1 uH , +/- 10%   | 4445R-13K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .1 uH , +/- 10%   |
| 4445-14J             | Radial Leaded, Radial Toroidal Inductor, .12 uH , +/- 5%   | 4445R-14J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .12 uH , +/- 5%   |

| OBSOLETE PART NUMBER | DESCRIPTION   | OBSOLETE PART NUMBER | DESCRIPTION   |
|----------------------|---|----------------------|---|
| 4445-14K             | Radial Leaded, Radial Toroidal Inductor, .12 uH , +/- 10% | 4445R-14K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .12 uH , +/- 10% |
| 4445-15J             | Radial Leaded, Radial Toroidal Inductor, .15 uH , +/- 5%  | 4445R-15J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .15 uH , +/- 5%  |
| 4445-15K             | Radial Leaded, Radial Toroidal Inductor, .15 uH , +/- 10% | 4445R-15K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .15 uH , +/- 10% |
| 4445-16J             | Radial Leaded, Radial Toroidal Inductor, .18 uH , +/- 5%  | 4445R-16J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .18 uH , +/- 5%  |
| 4445-16K             | Radial Leaded, Radial Toroidal Inductor, .18 uH , +/- 10% | 4445R-16K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .18 uH , +/- 10% |
| 4445-17J             | Radial Leaded, Radial Toroidal Inductor, .22 uH , +/- 5%  | 4445R-17J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .22 uH , +/- 5%  |
| 4445-17K             | Radial Leaded, Radial Toroidal Inductor, .22 uH , +/- 10% | 4445R-17K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .22 uH , +/- 10% |
| 4445-18J             | Radial Leaded, Radial Toroidal Inductor, .27 uH , +/- 5%  | 4445R-18J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .27 uH , +/- 5%  |
| 4445-18K             | Radial Leaded, Radial Toroidal Inductor, .27 uH , +/- 10% | 4445R-18K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .27 uH , +/- 10% |
| 4445-19J             | Radial Leaded, Radial Toroidal Inductor, .33 uH , +/- 5%  | 4445R-19J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .33 uH , +/- 5%  |

| OBSOLETE PART NUMBER | DESCRIPTION   | OBSOLETE PART NUMBER | DESCRIPTION   |
|----------------------|---|----------------------|---|
| 4445-19K             | Radial Leaded, Radial Toroidal Inductor, .33 uH , +/- 10% | 4445R-19K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .33 uH , +/- 10% |
| 4445-20J             | Radial Leaded, Radial Toroidal Inductor, .39 uH , +/- 5%  | 4445R-20J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .39 uH , +/- 5%  |
| 4445-20K             | Radial Leaded, Radial Toroidal Inductor, .39 uH , +/- 10% | 4445R-20K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .39 uH , +/- 10% |
| 4445-21J             | Radial Leaded, Radial Toroidal Inductor, .47 uH , +/- 5%  | 4445R-21J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .47 uH , +/- 5%  |
| 4445-21K             | Radial Leaded, Radial Toroidal Inductor, .47 uH , +/- 10% | 4445R-21K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .47 uH , +/- 10% |
| 4445-22J             | Radial Leaded, Radial Toroidal Inductor, .56 uH , +/- 5%  | 4445R-22J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .56 uH , +/- 5%  |
| 4445-22K             | Radial Leaded, Radial Toroidal Inductor, .56 uH , +/- 10% | 4445R-22K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .56 uH , +/- 10% |
| 4445-23J             | Radial Leaded, Radial Toroidal Inductor, .68 uH , +/- 5%  | 4445R-23J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .68 uH , +/- 5%  |
| 4445-23K             | Radial Leaded, Radial Toroidal Inductor, .68 uH , +/- 10% | 4445R-23K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .68 uH , +/- 10% |
| 4445-24J             | Radial Leaded, Radial Toroidal Inductor, .82 uH , +/- 5%  | 4445R-24J            | RoHS, Radial Leaded, Radial Toroidal Inductor, .82 uH , +/- 5%  |

| OBSOLETE PART NUMBER | DESCRIPTION   | OBSOLETE PART NUMBER | DESCRIPTION   |
|----------------------|---|----------------------|---|
| 4445-24K             | Radial Leaded, Radial Toroidal Inductor, .82 uH , +/- 10% | 4445R-24K            | RoHS, Radial Leaded, Radial Toroidal Inductor, .82 uH , +/- 10% |
| 4445-25J             | Radial Leaded, Radial Toroidal Inductor, 1 uH , +/- 5%    | 4445R-25J            | RoHS, Radial Leaded, Radial Toroidal Inductor, 1 uH , +/- 5%    |
| 4445-25K             | Radial Leaded, Radial Toroidal Inductor, 1 uH , +/- 10%   | 4445R-25K            | RoHS, Radial Leaded, Radial Toroidal Inductor, 1 uH , +/- 10%   |

**Delevan Product Series:** 4445 & 4445R

**Effectivity Date:** 11/21/2024

**Product Classification:** Radial leaded, Toroidal Inductor

**Replacement Series:** None

**Expected Effect on Quality/Reliability/Performance:** N/A

**Implementation Date:** Immediately 11/21/2024. No last time buy available.

**Issued By:** Delevan, Product Line Management

**Contact Information:**

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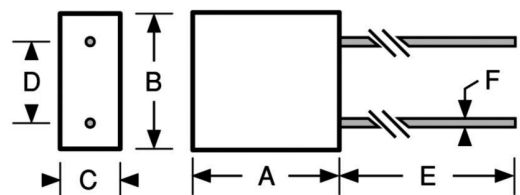
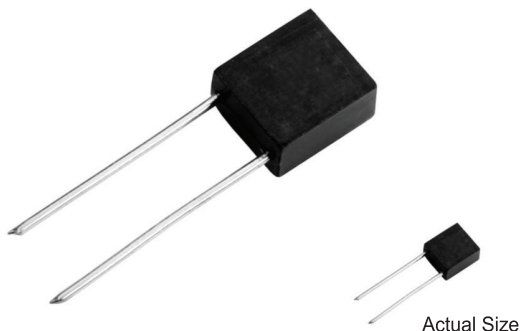
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**SERIES 4445R  
4445**



**Radial Toroidal Inductors**



| DASH NUMBER* | MIL DASH # (Ref.) | INDUCTANCE (μH) | TOLERANCE | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|--------------|-------------------|-----------------|-----------|-----------|-------------------|------------------------------|-----------------------------|
|--------------|-------------------|-----------------|-----------|-----------|-------------------|------------------------------|-----------------------------|

| MS21423 (Ref.) – SERIES 4445 |    |       |       |    |     |      |       |      |
|------------------------------|----|-------|-------|----|-----|------|-------|------|
| -01M                         | 1  | 0.010 | ± 20% | 60 | 150 | 1000 | 0.020 | 3000 |
| -02M                         | 2  | 0.012 | ± 20% | 60 | 150 | 1000 | 0.020 | 3000 |
| -03M                         | 3  | 0.015 | ± 20% | 60 | 150 | 1000 | 0.020 | 3000 |
| -04M                         | 4  | 0.018 | ± 20% | 60 | 150 | 1000 | 0.020 | 3000 |
| -05M                         | 5  | 0.022 | ± 20% | 60 | 100 | 900  | 0.020 | 3000 |
| -06M                         | 6  | 0.027 | ± 20% | 60 | 100 | 800  | 0.020 | 3000 |
| -07M                         | 7  | 0.033 | ± 20% | 60 | 100 | 750  | 0.020 | 3000 |
| -08M                         | 8  | 0.039 | ± 20% | 60 | 100 | 700  | 0.020 | 3000 |
| -09M                         | 9  | 0.047 | ± 20% | 60 | 100 | 650  | 0.020 | 3000 |
| -10M                         | 10 | 0.056 | ± 20% | 60 | 100 | 600  | 0.020 | 3000 |
| -11M                         | 11 | 0.068 | ± 20% | 60 | 100 | 550  | 0.030 | 2500 |
| -12M                         | 12 | 0.082 | ± 20% | 60 | 100 | 500  | 0.040 | 2200 |
| -13K                         | 13 | 0.100 | ± 10% | 80 | 50  | 450  | 0.040 | 2200 |
| -14K                         | 14 | 0.120 | ± 10% | 80 | 50  | 400  | 0.050 | 2000 |
| -15K                         | 15 | 0.150 | ± 10% | 80 | 50  | 350  | 0.060 | 1800 |
| -16K                         | 16 | 0.180 | ± 10% | 80 | 50  | 320  | 0.070 | 1600 |
| -17K                         | 17 | 0.220 | ± 10% | 80 | 50  | 300  | 0.080 | 1500 |
| -18K                         | 18 | 0.270 | ± 10% | 80 | 50  | 280  | 0.100 | 1400 |
| -19K                         | 19 | 0.330 | ± 10% | 80 | 50  | 260  | 0.120 | 1300 |
| -20K                         | 20 | 0.390 | ± 10% | 80 | 50  | 240  | 0.150 | 1150 |
| -21K                         | 21 | 0.470 | ± 10% | 80 | 50  | 220  | 0.200 | 1000 |
| -22K                         | 22 | 0.560 | ± 10% | 70 | 50  | 200  | 0.250 | 900  |
| -23K                         | 23 | 0.680 | ± 10% | 70 | 50  | 180  | 0.300 | 800  |
| -24K                         | 24 | 0.820 | ± 10% | 70 | 50  | 160  | 0.350 | 750  |
| -25K                         | 25 | 1.000 | ± 10% | 70 | 50  | 150  | 0.400 | 700  |

**Military Specification MS21423 (Ref.)**

Mechanical Configuration Units are radial led and encapsulated in an epoxy molded package.

**Physical Parameters**

|   | Inches           | Millimeters    |
|---|------------------|----------------|
| A | 0.200 to 0.230   | 5.08 to 5.84   |
| B | 0.190 to 0.210   | 4.83 to 5.33   |
| C | 0.090 to 0.110   | 2.29 to 2.79   |
| D | 0.090 to 0.110   | 2.29 to 2.79   |
| E | 1.00 Min.        | 25.4 Min.      |
| F | 0.0185 to 0.0215 | 0.470 to 0.546 |

**Operating Temperature** -55°C to +125°C

**Current Rating at 90°C Ambient** 35°C Rise

**Maximum Power Dissipation at 90°C** 0.200 W

**Note** Inductance measured 0.25" from body.

**Weight Max.** (Grams) 0.5

\*\* **Note** Self Resonant Frequency (SRF) values above 250 MHz are calculated and for reference only.  
 Marking 4445; dash number with tolerance letter; Delevan cage code (99800); date code (YYWWL). Note: An R after 4445 indicates a RoHS component.

Example: 4445-01M

- 4445
- 01M
- 99800
- 0828A

**Packaging** Bulk only

**Made in the U.S.A.**

Optional Tolerances: J = 5% H = 3% G  
 (Dash 01-12 Min. Tolerance is ±5%)  
 \*Complete part # must include series # PLUS the dash #

