

Molded Wound Chip Inductors / CML Series



Feature

1. Leaching resistant terminations due to metal tab electrodes.
2. Coils encapsulated in heat-proof resin make high accurate dimensions and resistant to mechanical shock or pressure.
3. high resistance to heat and humidity.

Application

Microtelevisions, liquid crystal television, video camera, portable VCRs, car radios, car stereos, thin type radio. television tuners, mobil telephones, radio equipment, modules such as hybrid lcs.

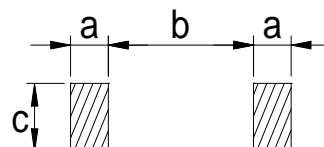
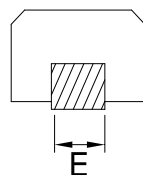
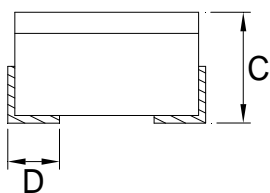
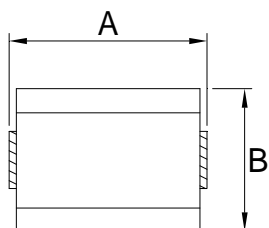
Product Identification

CML 3225 330 K - LF

1 2 3 4 5

1. Series name
2. Dimension.(See Details)
3. Inductance.(See Details)
4. Tolerance.(See Details)
5. Lead-Free part number.

Configurations & Dimensions



PCB Pattern

| Series Name | A | B | C | D | E | a | b | c |
|-------------|-----------|-----------|-----------|----------|-----------|------|------|------|
| CML3225 | 3.2 ± 0.2 | 2.5 ± 0.2 | 2.2 ± 0.2 | 0.6 typ. | 1.0 ± 0.2 | 1.00 | 2.00 | 2.00 |
| CML4532 | 4.5 ± 0.3 | 3.2 ± 0.3 | 3.2 ± 0.3 | 1.2 typ. | 1.1 ± 0.2 | 1.50 | 3.00 | 2.80 |

Unit: mm

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Electrical Characteristics / CML3225

| System Number | Part Number | Inductance (μ H) | Q Value Min | Test Frequency (MHz) | SRF (MHz) Min | DC Resistance Max. ($m\Omega$) | Rated Current Max. (mA) |
|---------------|----------------|---------------------------|----------------|------------------------------|------------------|--|------------------------------|
| WP41O0610-00 | CML3225-10N __ | 0.010 | 15 | 100 | 2500 | 130 | 450 |
| WP41O0611-00 | CML3225-12N __ | 0.012 | 17 | 100 | 2300 | 140 | 450 |
| WP41O0612-00 | CML3225-15N __ | 0.015 | 19 | 100 | 2100 | 160 | 450 |
| WP41O0613-00 | CML3225-18N __ | 0.018 | 21 | 100 | 1900 | 180 | 450 |
| WP41O0614-00 | CML3225-22N __ | 0.022 | 23 | 100 | 1700 | 200 | 450 |
| WP41O0615-00 | CML3225-27N __ | 0.027 | 23 | 100 | 1500 | 220 | 450 |
| WP41O0616-00 | CML3225-33N __ | 0.033 | 25 | 100 | 1400 | 240 | 450 |
| WP41O0617-00 | CML3225-39N __ | 0.039 | 25 | 100 | 1300 | 270 | 450 |
| WP41O0618-00 | CML3225-47N __ | 0.047 | 26 | 100 | 1200 | 300 | 450 |
| WP41O0619-00 | CML3225-56N __ | 0.056 | 26 | 100 | 1100 | 330 | 450 |
| WP41O061A-00 | CML3225-68N __ | 0.068 | 27 | 100 | 1000 | 360 | 450 |
| WP41O061B-00 | CML3225-82N __ | 0.082 | 27 | 100 | 900 | 400 | 450 |
| WP41O0620-00 | CML3225-R10 __ | 0.100 | 28 | 100 | 700 | 440 | 450 |
| WP41O0621-00 | CML3225-R12 __ | 0.120 | 30 | 25.2 | 500 | 220 | 450 |
| WP41O0622-00 | CML3225-R15 __ | 0.150 | 30 | 25.2 | 450 | 250 | 450 |
| WP41O0623-00 | CML3225-R18 __ | 0.180 | 30 | 25.2 | 400 | 280 | 450 |
| WP41O0624-00 | CML3225-R22 __ | 0.220 | 30 | 25.2 | 350 | 320 | 450 |
| WP41O0625-00 | CML3225-R27 __ | 0.270 | 30 | 25.2 | 320 | 360 | 450 |
| WP41O0626-00 | CML3225-R33 __ | 0.330 | 30 | 25.2 | 300 | 400 | 450 |
| WP41O0627-00 | CML3225-R39 __ | 0.390 | 30 | 25.2 | 250 | 450 | 450 |
| WP41O0628-00 | CML3225-R47 __ | 0.470 | 30 | 25.2 | 220 | 500 | 450 |
| WP41O0629-00 | CML3225-R56 __ | 0.560 | 30 | 25.2 | 180 | 550 | 450 |
| WP41O062A-00 | CML3225-R68 __ | 0.680 | 30 | 25.2 | 160 | 600 | 450 |
| WP41O062B-00 | CML3225-R82 __ | 0.820 | 30 | 25.2 | 140 | 650 | 450 |

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Electrical Characteristics / CML3225

| System Number | Part Number | Inductance (μ H) | Q Value Min | Test Frequency (MHz) | SRF (MHz) Min | DC Resistance Max. ($m\Omega$) | Rated Current Max. (mA) |
|---------------|----------------|---------------------------|----------------|------------------------------|------------------|--|------------------------------|
| WP41O0630-00 | CML3225-1R0 __ | 1.00 | 30 | 7.96 | 120 | 700 | 400 |
| WP41O0631-00 | CML3225-1R2 __ | 1.20 | 30 | 7.96 | 100 | 750 | 390 |
| WP41O0632-00 | CML3225-1R5 __ | 1.50 | 30 | 7.96 | 85 | 850 | 370 |
| WP41O0633-00 | CML3225-1R8 __ | 1.80 | 30 | 7.96 | 80 | 900 | 350 |
| WP41O0634-00 | CML3225-2R2 __ | 2.20 | 30 | 7.96 | 75 | 1,000 | 320 |
| WP41O0635-00 | CML3225-2R7 __ | 2.70 | 30 | 7.96 | 70 | 1,100 | 290 |
| WP41O0636-00 | CML3225-3R3 __ | 3.30 | 30 | 7.96 | 60 | 1,200 | 260 |
| WP41O0637-00 | CML3225-3R9 __ | 3.90 | 30 | 7.96 | 55 | 1,300 | 250 |
| WP41O0638-00 | CML3225-4R7 __ | 4.70 | 30 | 7.96 | 50 | 1,500 | 220 |
| WP41O0639-00 | CML3225-5R6 __ | 5.60 | 30 | 7.96 | 47 | 1,600 | 200 |
| WP41O063A-00 | CML3225-6R8 __ | 6.80 | 30 | 7.96 | 43 | 1,800 | 180 |
| WP41O063B-00 | CML3225-8R2 __ | 8.20 | 30 | 7.96 | 40 | 2,000 | 170 |
| WP41O0640-00 | CML3225-100 __ | 10 | 30 | 2.52 | 36 | 2,100 | 150 |
| WP41O0641-00 | CML3225-120 __ | 12 | 30 | 2.52 | 33 | 2,500 | 140 |
| WP41O0642-00 | CML3225-150 __ | 15 | 30 | 2.52 | 30 | 2,800 | 130 |
| WP41O0643-00 | CML3225-180 __ | 18 | 30 | 2.52 | 27 | 3,300 | 120 |
| WP41O0644-00 | CML3225-220 __ | 22 | 30 | 2.52 | 25 | 3,700 | 110 |
| WP41O0645-00 | CML3225-270 __ | 27 | 30 | 2.52 | 20 | 5,000 | 80 |
| WP41O0646-00 | CML3225-330 __ | 33 | 30 | 2.52 | 17 | 5,600 | 70 |
| WP41O0647-00 | CML3225-390 __ | 39 | 30 | 2.52 | 16 | 6,400 | 65 |
| WP41O0648-00 | CML3225-470 __ | 47 | 30 | 2.52 | 15 | 7,000 | 60 |
| WP41O0649-00 | CML3225-560 __ | 56 | 30 | 2.52 | 16 | 8,000 | 55 |
| WP41O064A-00 | CML3225-680 __ | 68 | 30 | 2.52 | 12 | 9,000 | 50 |
| WP41O064B-00 | CML3225-820 __ | 82 | 30 | 2.52 | 11 | 10,000 | 45 |
| WP41O0650-00 | CML3225-101 __ | 100 | 20 | 0.796 | 10 | 10,000 | 40 |
| WP41O0651-00 | CML3225-121 __ | 120 | 20 | 0.796 | 10 | 11,000 | 70 |
| WP41O0652-00 | CML3225-151 __ | 150 | 20 | 0.796 | 8 | 15,000 | 65 |
| WP41O0653-00 | CML3225-181 __ | 180 | 20 | 0.796 | 7 | 17,000 | 60 |
| WP41O0654-00 | CML3225-221 __ | 220 | 20 | 0.796 | 7 | 21,000 | 50 |
| WP41O0655-00 | CML3225-271 __ | 270 | 20 | 0.796 | 6 | 22,000 | 45 |
| WP41O0656-00 | CML3225-331 __ | 330 | 20 | 0.796 | 5 | 34,000 | 40 |

Molded Wound Chip Inductors / CML Series

■ Electrical Characteristics / CML4532

| System Number | Part Number | Inductance (μ H) | Q Value Min | Test Frequency (MHz) | SRF (MHz)Min | DC Resistance Max. ($m\Omega$) | Rated Current Max. (mA) |
|---------------|----------------|--------------------------|----------------|----------------------------|-----------------|--|----------------------------|
| WP41O0820-00 | CML4532-R10 __ | 0.100 | 28 | 25.2 | 700 | 440 | 800 |
| WP41O0821-00 | CML4532-R12 __ | 0.120 | 30 | 25.2 | 500 | 220 | 770 |
| WP41O0822-00 | CML4532-R15 __ | 0.150 | 30 | 25.2 | 450 | 250 | 730 |
| WP41O0823-00 | CML4532-R18 __ | 0.180 | 30 | 25.2 | 400 | 280 | 700 |
| WP41O0824-00 | CML4532-R22 __ | 0.220 | 30 | 25.2 | 350 | 320 | 665 |
| WP41O0825-00 | CML4532-R27 __ | 0.270 | 30 | 25.2 | 320 | 360 | 635 |
| WP41O0826-00 | CML4532-R33 __ | 0.330 | 30 | 25.2 | 300 | 400 | 605 |
| WP41O0827-00 | CML4532-R39 __ | 0.390 | 30 | 25.2 | 250 | 450 | 575 |
| WP41O0828-00 | CML4532-R47 __ | 0.470 | 30 | 25.2 | 220 | 500 | 545 |
| WP41O0829-00 | CML4532-R56 __ | 0.560 | 30 | 25.2 | 180 | 550 | 520 |
| WP41O082A-00 | CML4532-R68 __ | 0.680 | 30 | 25.2 | 160 | 600 | 500 |
| WP41O082B-00 | CML4532-R82 __ | 0.820 | 30 | 25.2 | 140 | 670 | 475 |
| WP41O0830-00 | CML4532-1R0 __ | 1.000 | 50 | 7.96 | 100 | 500 | 450 |
| WP41O0831-00 | CML4532-1R2 __ | 1.200 | 50 | 7.96 | 80 | 550 | 430 |
| WP41O0832-00 | CML4532-1R5 __ | 1.500 | 50 | 7.96 | 70 | 600 | 410 |
| WP41O0833-00 | CML4532-1R8 __ | 1.800 | 50 | 7.96 | 60 | 650 | 390 |
| WP41O0834-00 | CML4532-2R2 __ | 2.200 | 50 | 7.96 | 55 | 700 | 380 |
| WP41O0835-00 | CML4532-2R7 __ | 2.700 | 50 | 7.96 | 50 | 750 | 370 |
| WP41O0836-00 | CML4532-3R3 __ | 3.300 | 50 | 7.96 | 45 | 800 | 355 |
| WP41O0837-00 | CML4532-3R9 __ | 3.900 | 50 | 7.96 | 40 | 900 | 330 |
| WP41O0838-00 | CML4532-4R7 __ | 4.700 | 50 | 7.96 | 35 | 1,000 | 315 |
| WP41O0839-00 | CML4532-5R6 __ | 5.600 | 50 | 7.96 | 33 | 1,100 | 300 |
| WP41O083A-00 | CML4532-6R8 __ | 6.800 | 50 | 7.96 | 27 | 1,200 | 285 |
| WP41O083B-00 | CML4532-8R2 __ | 8.200 | 50 | 7.96 | 25 | 1,400 | 270 |

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Electrical Characteristics / CML4532

| System Number | Part Number | Inductance (μ H) | Q Value Min | Test Frequency (MHz) | SRF (MHz)Min | DC Resistance Max. ($m\Omega$) | Rated Current Max. (mA) |
|---------------|----------------|---------------------------|----------------|------------------------------|-----------------|--|------------------------------|
| WP41O0840-00 | CML4532-100 __ | 10 | 50 | 2.52 | 20 | 1,600 | 250 |
| WP41O0841-00 | CML4532-120 __ | 12 | 50 | 2.52 | 18 | 2,000 | 225 |
| WP41O0842-00 | CML4532-150 __ | 15 | 50 | 2.52 | 17 | 2,500 | 200 |
| WP41O0843-00 | CML4532-180 __ | 18 | 50 | 2.52 | 15 | 2,800 | 190 |
| WP41O0844-00 | CML4532-220 __ | 22 | 50 | 2.52 | 13 | 3,200 | 180 |
| WP41O0845-00 | CML4532-270 __ | 27 | 50 | 2.52 | 12 | 3,600 | 170 |
| WP41O0846-00 | CML4532-330 __ | 33 | 50 | 2.52 | 11 | 4,000 | 160 |
| WP41O0847-00 | CML4532-390 __ | 39 | 50 | 2.52 | 10 | 4,500 | 150 |
| WP41O0848-00 | CML4532-470 __ | 47 | 50 | 2.52 | 10 | 5,000 | 140 |
| WP41O0849-00 | CML4532-560 __ | 56 | 50 | 2.52 | 9 | 5,500 | 135 |
| WP41O084A-00 | CML4532-680 __ | 68 | 50 | 2.52 | 9 | 6,000 | 130 |
| WP41O084B-00 | CML4532-820 __ | 82 | 50 | 2.52 | 8 | 7,000 | 120 |
| WP41O0850-00 | CML4532-101 __ | 100 | 40 | 0.796 | 8 | 8,000 | 110 |
| WP41O0851-00 | CML4532-121 __ | 120 | 40 | 0.796 | 6 | 8,000 | 110 |
| WP41O0852-00 | CML4532-151 __ | 150 | 40 | 0.796 | 5 | 9,000 | 105 |
| WP41O0853-00 | CML4532-181 __ | 180 | 40 | 0.796 | 5 | 9,500 | 102 |
| WP41O0854-00 | CML4532-221 __ | 220 | 40 | 0.796 | 4 | 12,000 | 100 |
| WP41O0855-00 | CML4532-271 __ | 270 | 40 | 0.796 | 4 | 18,000 | 85 |
| WP41O0856-00 | CML4532-331 __ | 330 | 40 | 0.796 | 3.5 | 20,000 | 85 |
| WP41O0857-00 | CML4532-391 __ | 390 | 40 | 0.796 | 3 | 23,000 | 80 |
| WP41O0858-00 | CML4532-471 __ | 470 | 40 | 0.796 | 3 | 26,000 | 62 |
| WP41O0859-00 | CML4532-561 __ | 560 | 30 | 0.796 | 3 | 30,000 | 50 |
| WP41O085A-00 | CML4532-681 __ | 680 | 30 | 0.796 | 3 | 40,000 | 50 |
| WP41O085B-00 | CML4532-821 __ | 820 | 30 | 0.796 | 2.5 | 45,000 | 30 |
| WP41O0860-00 | CML4532-102 __ | 1000 | 30 | 0.252 | 2.5 | 50,000 | 30 |

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Electrical Curve / CML3225 & CML4532

