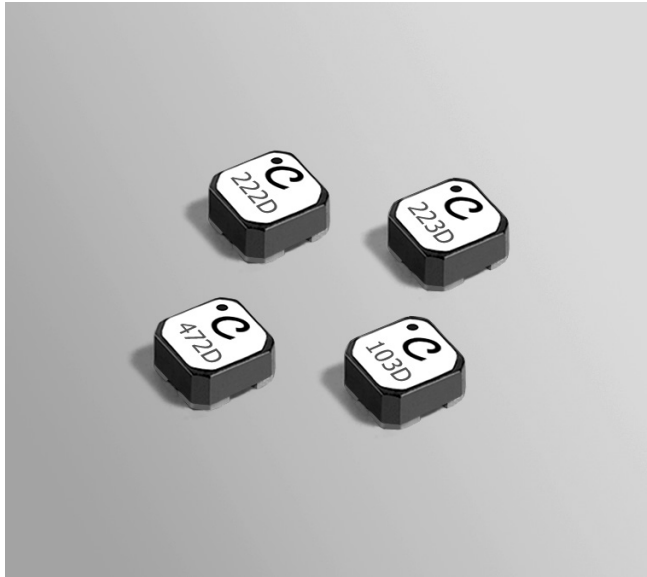


Common Mode Chokes – LPD3015



- Only 1.4 mm high and 3 mm square
- Ideal for use in both power line and signal line applications
- Common- and differential-mode filtering in a single device
- Up to 540 MHz differential mode cutoff frequency
- Can be used as coupled inductors for SEPIC applications

Core material Ferrite

Weight 45 – 52 mg

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over silver. Other terminations available at additional cost.

Ambient temperature -40°C to +85°C with (40°C rise) Irms current.

Maximum part temperature +125°C (ambient + temp rise).

Storage temperature Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

Winding to winding isolation 100 Vrms, one minute

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

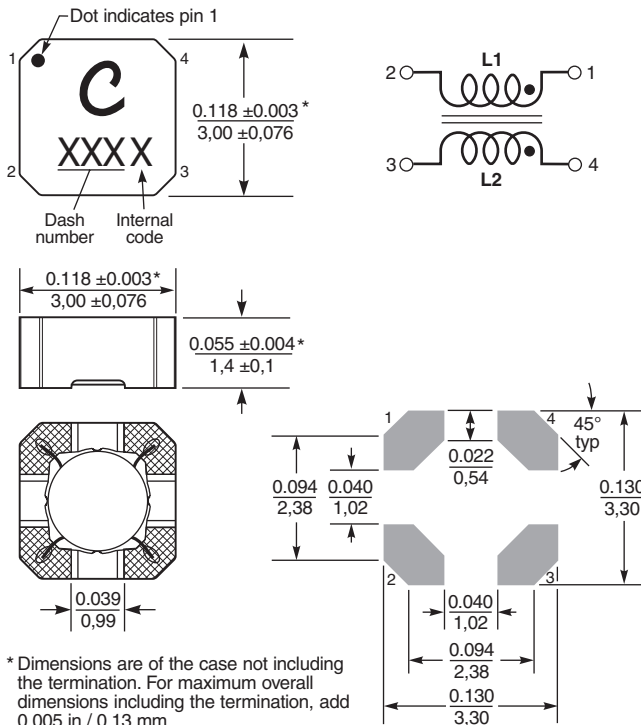
Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 1000/7" reel; 3500/13" reel Plastic tape: 12 mm wide, 0.26 mm thick, 8 mm pocket spacing, 1.65 mm pocket depth

Recommended pick and place nozzle OD: 3 mm; ID: ≤ 1.5 mm

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).



* Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.005 in / 0.13 mm.

For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.005 in / 0.13 mm.

Dimensions are in $\frac{\text{inches}}{\text{mm}}$



Common Mode Chokes – LPD3015 Series

Partnumber ¹	Common mode impedance max (kOhms)	Cutoff frequency ² (MHz)	Inductance (μH) ³		DCR max ⁴ (Ohms)	Isolation (Vrms)	Irms (A)
			min	nom			
LPD3015-391MR_	1.03 @ 330 MHz	540	0.312	0.39	0.071	100	1.45
LPD3015-561MR_	1.44 @ 240 MHz	540	0.448	0.56	0.079	100	1.37
LPD3015-102MR_	2.43 @ 160 MHz	330	0.800	1.0	0.129	100	1.08
LPD3015-152MR_	3.56 @ 130 MHz	330	1.20	1.5	0.204	100	0.86
LPD3015-182MR_	4.37 @ 110 MHz	280	1.44	1.8	0.273	100	0.78
LPD3015-222MR_	4.67 @ 100 MHz	330	1.76	2.2	0.300	100	0.75
LPD3015-332MR_	7.28 @ 81 MHz	220	2.64	3.3	0.337	100	0.67
LPD3015-472MR_	10.7 @ 66 MHz	210	3.76	4.7	0.503	100	0.54
LPD3015-682MR_	12.1 @ 54 MHz	290	5.44	6.8	0.622	100	0.49
LPD3015-103MR_	17.8 @ 47 MHz	330	8.00	10	1.040	100	0.38
LPD3015-153MR_	22.6 @ 33 MHz	140	12.0	15	1.420	100	0.32
LPD3015-183MR_	29.0 @ 31 MHz	94	14.4	18	1.550	100	0.31
LPD3015-223MR_	27.3 @ 24 MHz	88	17.6	22	1.89	100	0.28
LPD3015-333MR_	41.1 @ 21 MHz	59	26.4	33	2.84	100	0.23
LPD3015-473MR_	48.7 @ 18 MHz	50	37.6	47	4.03	100	0.19
LPD3015-683MR_	64.5 @ 14 MHz	48	54.4	68	6.11	100	0.16
LPD3015-104MR_	94.7 @ 13 MHz	47	80.0	100	8.54	100	0.13
LPD3015-124MR_	116 @ 11 MHz	37	96.0	120	9.23	100	0.13
LPD3015-154MR_	135 @ 9.3 MHz	27	120	150	12.40	100	0.11
LPD3015-184MR_	170 @ 8.0 MHz	39	144	180	15.32	100	0.10
LPD3015-224MR_	155 @ 7.1 MHz	27	176	220	18.56	100	0.09
LPD3015-334MR_	222 @ 5.9 MHz	16	264	330	27.70	100	0.07

1. When ordering, please specify **termination** and **packaging** codes:

LPD3015-334MRC

Termination: **R** = Matte tin over nickel over silver
Special order, added cost:

Q = RoHS tin-silver-copper (95.5/4/0.5) or

P = non-RoHS tin-lead (63/37)

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (3500 parts per full reel).

2 Frequency at which the differential mode attenuation equals 3 dB

3 Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

4 DCR is for each winding.

5 Interwinding isolation (hipot) tested for one minute.

6 Current that causes a 40°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

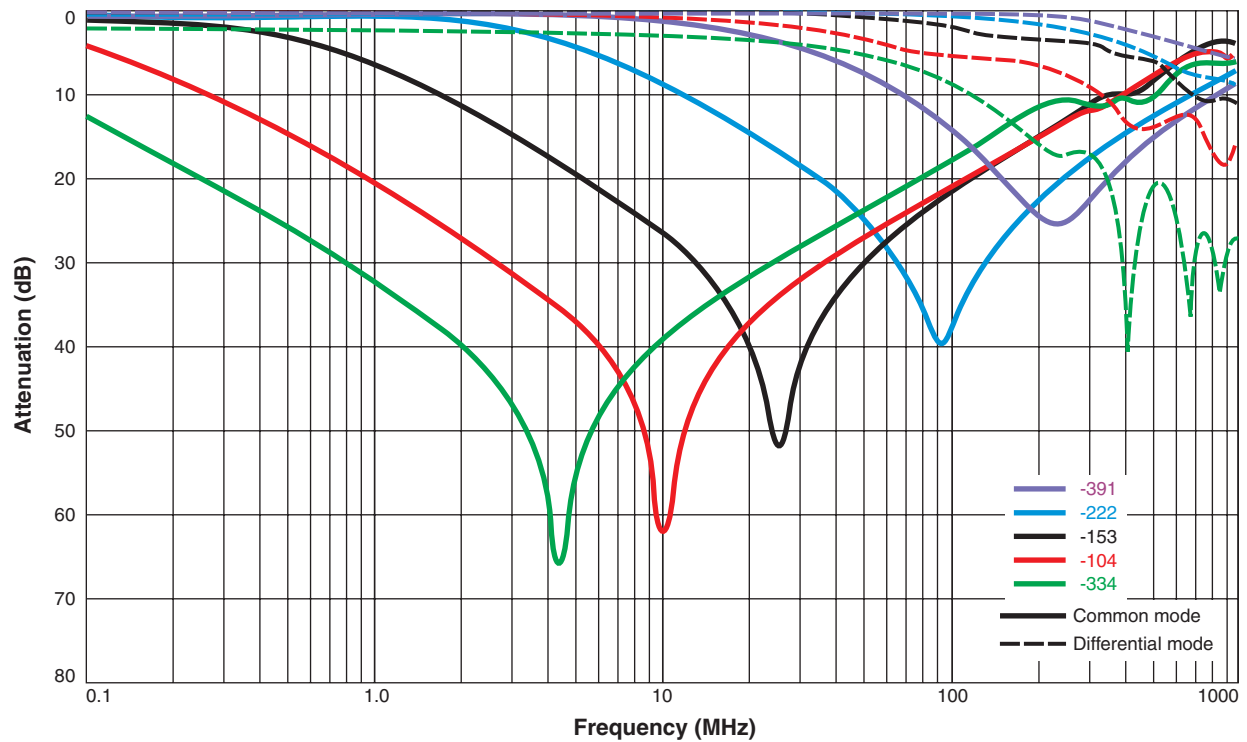
7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

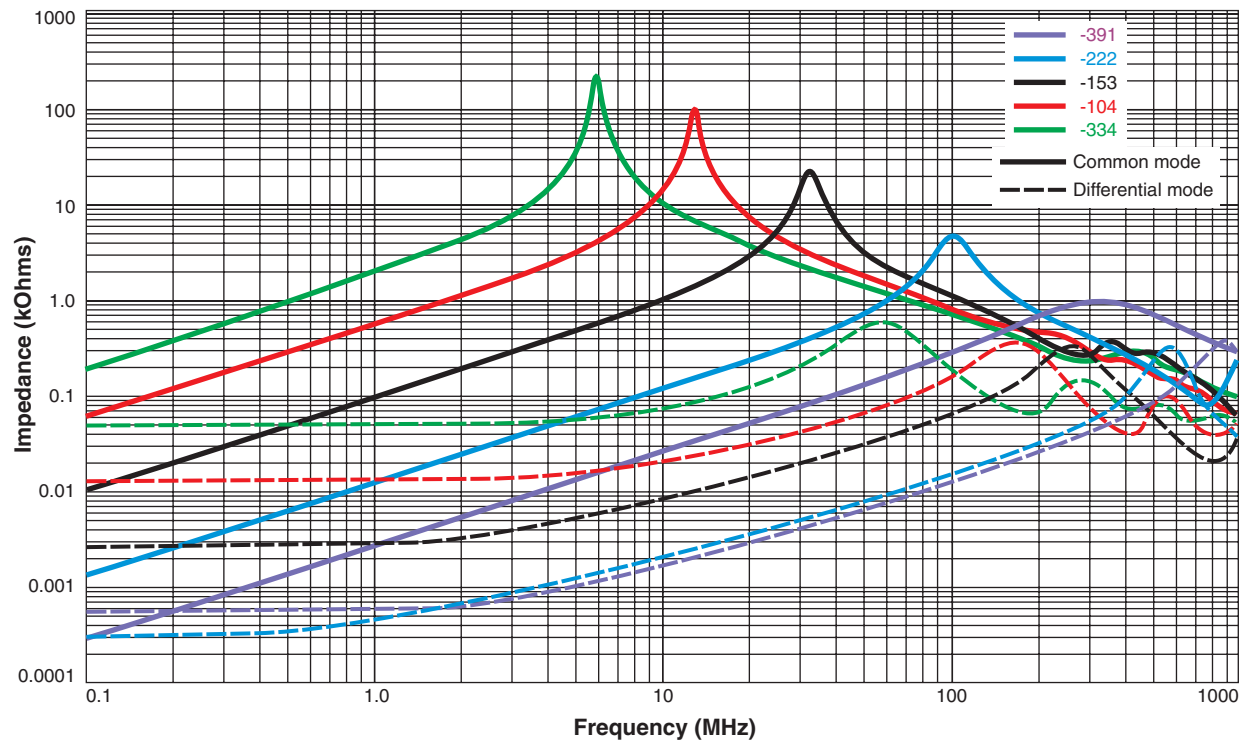


Common Mode Chokes – LPD3015 Series

Typical Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency



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