



Common Mode Choke Coils Wound Type, Film Type and Film Type Arrays



DLW21H Series: Excellent noise suppression for limited board space applications. Suitable for differential signal line like USB2.0, IEEE1394 and LVDS. DLW21H does not provide distortion to high speed signal transmission due to its high coupling. (USB2.0:DLW21HN900S02).

DLW21S Series: Able to suppress noise for high-speed differential signal lines which are used in digital AV interfaces, such as HDMI and DVI, without damage to the signal wave.

DLW31S Series: High common mode impedance at high frequency provides excellent noise suppression performance. DLW31S series enables noise suppression for differential signal line without distortion in high speed signal transmission due to its high coupling. Small dimension enables higher density mounting.

DLW5BS Series: High performance wound type chip common mode choke coil. Its high impedance characteristic enables great noise suppression, but it does not damage high speed signal due to low normal mode impedance.

DLW5BT Series: Suitable for noise suppression at DC power line and portable equipment. Low profile. Small size and high rated current. High common mode impedance.

DLPNS Series: Enables noise suppression for differential signal line without distortion in high-speed signal transmission

due to its line impedance matching. *Applications:* Common mode noise suppression of high speed differential signal lines for USB 2.0, IEEE1394, LVDS

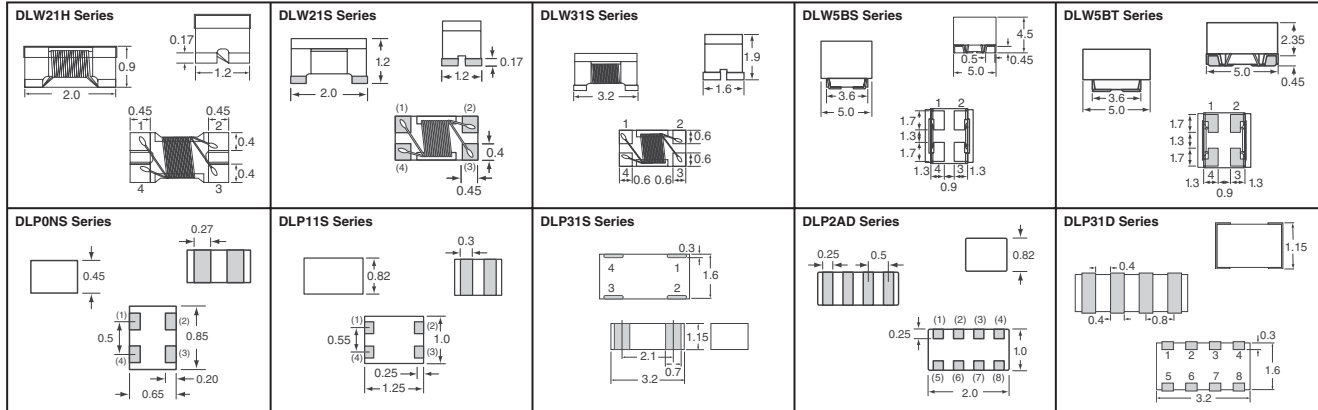
DLP11S Series: Enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its high coupling. DLP11SN_HL2 series match with line impedance. High cutoff frequency is suitable for high speed differential signal line such as HDMI.

DLP31S Series: Has excellent performance at high frequency range. Suitable for differential signal line like USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupling (coupling coefficient: 0.99 minimum).

DLP2AD Series: High common mode impedance characteristics. DLP2AD can suppress common mode noise without damage to signal wave. DLP2AD match with line impedance.

DLP31D Series: Utilizing ferrite materials and thin film technology, this common mode choke coil array has high impedance characteristics all packaged in a small case size. 2 components are included in 3.2 x 1.6mm. DLP31D can suppress common mode noise without damage to signal wave.

Dimensions in mm



Common Mode Impedance (at 100MHz) (Ω)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (MΩ)	With-standing Voltage (Vdc)	DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	50	100		Qty.	Pricing	
DLW21H Series — Wound Type													
67 ±25%	330	50	10	125	0.35 max.	490-1063-1-ND	.36	.32	.29	490-1063-2-ND	3,000	167.41/M	DLW21HN670S02L
90 ±25%	330	50	10	125	0.35 max.	490-1064-1-ND	.36	.32	.29	490-1064-2-ND	3,000	167.41/M	DLW21HN900S02L
120 ±25%	280	50	10	125	0.45 max.	490-1065-1-ND	.36	.32	.29	490-1065-2-ND	3,000	167.41/M	DLW21HN121S02L
180 ±25%	250	50	10	125	0.50 max.	490-1066-1-ND	.36	.32	.29	490-1066-2-ND	3,000	167.41/M	DLW21HN181S02L
DLW21S Series — Wound Type													
67 ±25%	320	20	10	50	0.31 max.	490-5133-1-ND	.53	.46	.43	490-5133-2-ND	2,000	247.01/M	DLW21SN670H02L
90 ±25%	280	20	10	50	0.41 max.	490-5134-1-ND	.53	.46	.43	490-5134-2-ND	2,000	247.01/M	DLW21SN900H02L
120 ±25%	280	20	10	50	0.41 max.	490-5135-1-ND	.53	.46	.43	490-5135-2-ND	2,000	247.01/M	DLW21SN121H02L
67 ±25%	400	50	10	125	0.25 max.	490-5136-1-ND	.44	.39	.36	490-5136-2-ND	2,000	205.70/M	DLW21SN670S02L
90 ±25%	330	50	10	125	0.35 max.	490-5137-1-ND	.44	.39	.36	490-5137-2-ND	2,000	205.70/M	DLW21SN900S02L
120 ±25%	370	50	10	125	0.30 max.	490-5138-1-ND	.44	.39	.36	490-5138-2-ND	2,000	205.70/M	DLW21SN121S02L
180 ±25%	330	50	10	125	0.35 max.	490-5139-1-ND	.44	.39	.36	490-5139-2-ND	2,000	205.70/M	DLW21SN181S02L
260 ±25%	300	50	10	125	0.40 max.	490-5140-1-ND	.44	.39	.36	490-5140-2-ND	2,000	205.70/M	DLW21SN261S02L
370 ±25%	280	50	10	125	0.45 max.	490-5141-1-ND	.44	.39	.36	490-5141-2-ND	2,000	205.70/M	DLW21SN371S02L
DLW31S Series — Wound Type													
90 ±25%	370	50	10	125	0.3	490-1067-1-ND	.89	.77	.71	490-1067-2-ND	2,000	412.02/M	DLW31SN900S02L
600 ±25%	260	50	10	125	0.8	490-1068-1-ND	.89	.77	.71	490-1068-2-ND	2,000	412.02/M	DLW31SN601S02L
1000 ±25%	230	50	10	125	1.0	490-1069-1-ND	.89	.77	.71	490-1069-2-ND	2,000	412.02/M	DLW31SN102S02L
2200 ±25%	200	50	10	125	1.2	490-1070-1-ND	.89	.77	.71	490-1070-2-ND	2,000	412.02/M	DLW31SN222S02L
DLW5BS Series — Wound Type													
350	2000	50	10	125	0.04	490-1071-1-ND	1.74	1.51	1.39	490-1071-2-ND	400	324.16	DLW5BSN351S02L
1000	1500	50	10	125	0.06	490-1072-1-ND	1.74	1.51	1.39	490-1072-2-ND	400	324.29	DLW5BSN102S02L
DLW5BT Series — Wound Type													
100	6000	50	10	125	0.009 ±40%	490-4019-1-ND	.98	.85	.78	490-4019-2-ND	700	316.89	DLW5BTN101S02L
1000	2000	50	10	125	0.024 ±40%	490-4018-1-ND	.98	.85	.78	490-4018-2-ND	700	316.89	DLW5BTN102S02L
1400	1500	50	10	125	0.040 ±40%	490-4017-1-ND	.98	.85	.78	490-4017-2-ND	700	316.89	DLW5BTN142S02L
DLPNS Series — Film Type													
67 ±20%	110	5	100	12.5	2.4 ±25%	490-5150-1-ND	.42	.37	.34	490-5150-2-ND	5,000	195.79/M	DLPNSN670HL2L
90 ±20%	100	5	100	12.5	3.0 ±25%	490-5151-1-ND	.42	.37	.34	490-5151-2-ND	5,000	195.79/M	DLPNSN900HL2L
120 ±20%	90	5	100	12.5	3.8 ±25%	490-5152-1-ND	.42	.37	.34	490-5152-2-ND	5,000	195.79/M	DLPNSN121HL2L
DLP11S Series — Film Type													
67 ±20%	180	5	100	12.5	1.3 ±25%	490-5142-1-ND	.33	.28	.26	490-5142-2-ND	3,000	149.53/M	DLP11SN670SL2L
90 ±20%	150	5	100	12.5	1.5 ±25%	490-5143-1-ND	.33	.28	.26	490-5143-2-ND	3,000	149.53/M	DLP11SN900HL4L
120 ±20%	140	5	100	12.5	2.0 ±25%	490-5144-1-ND	.33	.28	.26	490-5144-2-ND	3,000	149.53/M	DLP11SN121SL2L
160 ±20%	120	5	100	12.5	2.7 ±25%	490-5145-1-ND	.33	.28	.26	490-5145-2-ND	3,000	149.53/M	DLP11SN161SL2L
200 ±20%	110	5	100	12.5	3.1 ±25%	490-5146-1-ND	.33	.28	.26	490-5146-2-ND	3,000	149.53/M	DLP11SN201HL2L
240 ±20%	100	5	100	12.5	3.5 ±25%	490-5147-1-ND	.33	.28	.26	490-5147-2-ND	3,000	149.53/M	DLP11SN241HL2L
280 ±20%	90	5	100	12.5	4.2 ±25%	490-5148-1-ND	.33	.28	.26	490-5148-2-ND	3,000	149.53/M	DLP11SN281HL2L
330 ±20%	80	5	100	12.5	4.9 ±25%	490-5149-1-ND	.33	.28	.26	490-5149-2-ND	3,000	149.53/M	DLP11SN331HL2L
DLP31S Series — Film Type													
120 ±20%	100	16	100	40	2.0 max.	490-4020-1-ND	1.24	1.07	.99	490-4020-2-ND	3,000	574.14/M	DLP31SN121ML2L
550 ±20%	100	16	100	40	3.6 max.	490-4021-1-ND	1.24	1.07	.99	490-4021-2-ND	3,000	574.14/M	DLP31SN551ML2L
DLP2AD Series — Film Type Arrays													
67 ±20%	140	5	100	12.5	1.3 ±25%	490-5153-1-ND	.55	.48	.44	490-5153-2-ND	3,000	254.44/M	DLP2ADN670HL4L
90 ±20%	130	5	100	12.5	1.7 ±25%	490-5154-1-ND	.55	.48	.44	490-5154-2-ND	3,000	254.44/M	DLP2ADN900HL4L
120 ±20%	120	5	100	12.5	2.0 ±25%	490-5155-1-ND	.55	.48	.44	490-5155-2-ND	3,000	254.44/M	DLP2ADN121HL4L
160 ±20%	100	5	100	12.5	2.5 ±25%	490-5156-1-ND	.55	.48	.44	490-5156-2-ND	3,000	254.44/M	DLP2ADN161HL4L
200 ±20%	90	5	100	12.5	3.2 ±25%	490-5157-1-ND	.55	.48	.44	490-5157-2-ND	3,000	254.44/M	DLP2ADN201HL4L
240 ±20%	80	5	100	12.5	3.8 ±25%	490-5158-1-ND	.55	.48	.44	490-5158-2-ND	3,000	254.44/M	DLP2ADN241HL4L
280 ±20%	80	5	100	12.5	4.6 ±25%	490-5159-1-ND	.55	.48	.44	490-5159-2-ND	3,000	254.44/M	DLP2ADN281HL4L
DLP31D Series — Film Type Arrays													
90 ±20%	160	10	100	25	1.1 max.	490-2474-1-ND	1.21	1.05	.97	490-2474-2-ND	3,000	560.78/M	DLP31DN900ML4L
130 ±20%	120	10	100	25	1.6 max.	490-2475-1-ND	1.21	1.05	.97	490-2475-2-ND	3,000	560.78/M	DLP31DN131ML4L
200 ±20%	100	10	100	25	2.2 max.	490-2476-1-ND	1.21	1.05	.97	490-2476-2-ND	3,000	560.78/M	DLP31DN201ML4L
320 ±20%	80	10	100	25	3.5 max.	490-2477-1-ND	1.21	1.05	.97	490-2477-2-ND	3,000	560.78/M	DLP31DN321ML4L
440 ±20%	70	10	100	25	4.3 max.	490-2478-1-ND	1.21	1.05	.97	490-2478-2-ND	3,000	560.78/M	DLP31DN441ML4L

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