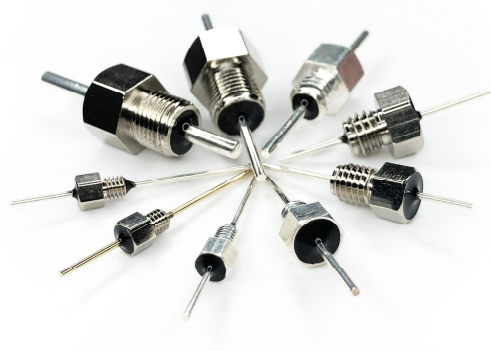


EMC/EMI filter capacitors

Fixed capacitors for electromagnetic interference suppression/DC and AC ceramic capacitors



DM2.5, D M3, D M4, D M5, D M6, D M8

DM8 can operate up to 1000VDC

Eco-friendly brass silver-plated/nickel-plated/gold-plated



Technical parameters

Continuous operating voltage	50V, 100V, 200V, 500V, 800V, 1000V max 125/250 VAC, 50/60 Hz 400 VAC, 50/60 Hz
Current rating	7 ~ 32 A @ 60°C max
Temperature characteristics (temperature range, rate of change)	NP0 (-55°C ~ +125°C, $\Delta C/C$: 0±30ppm/°C) SL (-55°C ~ +125°C, $\Delta C/C$: +350 ~ -1000ppm/°C) Y5P (-25°C ~ +85°C, $\Delta C/C$: ±10%) X7R (-55°C ~ +125°C, $\Delta C/C$: ±15%) Y5U (-25°C ~ +85°C, $\Delta C/C$: +22% ~ -56%) Y5V (-25°C ~ +85°C, $\Delta C/C$: +22% ~ -82%)
Dielectric strength (multiple of the applied operating voltage)	<200 VDC (3U) ≥ 200 VDC (2.5U) ≥ 500 VDC (2U) ≥ 800 VDC (1.5U) ≤ 400 VAC (1000 + 2U)
Highest test voltage	2500 VDC, 5s
Insulation Resistance (100VDC≥60s)	<0.01μF, R > 10,000 MΩ >0.025μF, t > 100s
Loss tangent (tanδ)	<0.03 conventional ≤ 0.05 max
Capacity accuracy	Z (-20% ~ +80%) c o n v entional S (-20% ~ +50%) M (-20% ~ +20%) P (0% ~ +100%)
Silver plating standard	SJ/T 11110-2016

Product certification

RoHS

Penetrating capacitor, also known as feed-through filter, is a three-terminal filter; It offers high insertion loss over a wide frequency band from KHz to GHz, and in general, penetrating capacitors provide a higher level of electromagnetic interference rejection than other types of capacitors, which is especially relevant for circuit devices with impedance sources less than 50Ω. Since it is mounted directly on a metal panel, it has a smaller ground inductance and almost no effect of lead inductance, and its input and output terminals are isolated by metal plates, eliminating high-frequency coupling, which determines that the through-center capacitor has a filtering effect close to the ideal capacitor.

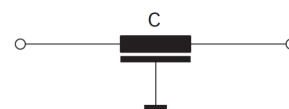
Features and benefits:

- Lower self-inductance
- Higher self-resonant frequency
- High quality and reliability
- Improve the level of system and information security
- Bolt-on installation is convenient

Typical Applications

- DC/AC power and data cables
- Telecommunications, transmission, industrial control, instrumentation equipment
- Switches and network equipment
- Medical devices
- Computer servers
- Automotive electronics

Electrical principle



Product code	Appearan ce code	Installation dimensions	Capacity-accuracy-temperature	Rated voltage	currentmax		
DKTL32C070-**NC	DL32C	DM2.5	1~7pF - * - NP0	50V / 100V / 200V	7A		
DKTL43B070-**NC	DL43B	DM3		50V / 100V / 200V / 500V			
DKTL54B070-**NC	DL54B	DM4					
DKTL65C070-**NC	DL65C	DM5					
DKTL86A100-**NC	DL86A	DM6	10pF - Z - NP0	100V / 200V / 500V / 250VAC	20A		
DKTL32C100-**NC	DL32C	DM2.5		50V / 100V / 200V	7A		
DKTL43A100-**NC	DL43A	DM3					
DKTL43G100-**NC	DL43G	DM3					
DKTL54B100-**NC	DL54B	DM4					
DKTL32C101-**SC	DL32C	DM2.5	100pF - Z - SL	50V / 100V / 200V	7A		
DKTL43B101-**SC	DL43B	DM3					
DKTL43W101-**SC	DL43W	DM3					
DKTL64A101-**SC	DL64A	DM4					
DKTL86B101-**SC	DL86B	DM6		50V / 100V / 200V / 500V	10A		
DKTL86A101-**SC	DL86A	DM6		100V / 200V / 500V / 250VAC	20A		
DKTL43A471-**YC	DL43A	DM3		470pF - Z - Y5P	50V / 100V / 200V	7A	
DKTL64B471-**YC	DL64B	DM4			50V / 100V / 200V / 500V		
DKTL32C102-**XC	DL32C	DM2.5	1000pF - Z - X7R	50V / 100V / 200V	7A		
DKTL32B102-**XC	DL32B	DM2.5					
DKTL32D102-**XC	DL32D	DM2.5					
DKTL43A102-**XC	DL43A	DM3					
DKTL43B102-**XC	DL43B	DM3					
DKTL43E102-**XC	DL43E	DM3					
DKTL43H102-**XC	DL43H	DM3					
DKTL64B102-**XC	DL64B	DM4					
DKTL65C102-**XC	DL65C	DM5		50V / 100V / 200V / 500V	10A		
DKTL64A102-**XC	DL64A	DM4					
DKTL65B102-**XC	DL65B	DM5					
DKTL86B102-**XC	DL86B	DM6					
DKTL86A102-**YC	DL86A	DM6		1000pF - Z - Y5P	100V / 200V / 500V / 250VAC	20A	
DKTL08E102-**YC	DL08E	DM8			200V / 500V / 1000V / 250VAC / 400VAC	32A	
DKTL65C152-**XC	DL65C	DM5		1500pF - Z - X7R	50V / 100V / 200V / 500V	7A	
DKTL65E152-**XC	DL65E	DM5					
DKTL65G152-**XC	DL65G	DM5	10A				
DKTL65A152-**XC	DL65A	DM5					
DKTL65B152-**XC	DL65B	DM5	2200pF - Z - Y5U	50V / 100V / 200V	7A		
DKTL43F222-**YC	DL43F	DM3		2200pF - Z - X7R	50V / 100V / 200V / 500V	10A	
DKTL64I222-**XC	DL64I	DM4			100V / 200V / 500V / 250VAC	20A	
DKTL86A222-**XC	DL86A	DM6					
DKTL86F222-**XC	DL86F	DM6	2500pF - Z - X7R	200V / 500V / 1000V / 250VAC / 400VAC	32A		
DKTL08E252-**XC	DL08E	DM8	3300pF - Z - Y5V	50V / 100V / 200V	7A		
DKTL43C332-**YC	DL43C	DM3					
DKTL43F332-**YC	DL43F	DM3		50V / 100V / 200V / 500V	10A		
DKTL43I332-**YC	DL43I	DM3					
DKTL64B332-**YC	DL64B	DM4					
DKTL64A332-**YC	DL64A	DM4					
DKTL65B332-**YC	DL65B	DM5	3300pF - Z - X7R	50V / 100V	7A		
DKTL43A332-**XC	DL43A	DM3		50V / 100V / 200V	10A		
DKTL64A332-**XC	DL64A	DM4					
DKTL43C472-**YC	DL43C	DM3		4700pF - Z - Y5V	50V / 100V / 200V / 500V	7A	
DKTL64B472-**YC	DL64B	DM4					
DKTL65H472-**YC	DL65H	DM5					
DKTL64A472-**YC	DL64A	DM4					
DKTL65A472-**YC	DL65A	DM5	100V / 200V / 500V / 250VAC		20A		
DKTL86B472-**YC	DL86B	DM6					
DKTL86A472-**YC	DL86A	DM6					
DKTL86F472-**YC	DL86F	DM6					
DKTL86B472-**XC	DL86B	DM6	4700pF - Z - X7R	50V / 100V / 200V / 500V	10A		
DKTL43A103-**XC	DL43A	DM3	0.01uF - S - X7R	50V / 100V	7A		
DKTL64A103-**XC	DL64A	DM4		50V / 100V / 200V	10A		
DKTL65B103-**XC	DL65B	DM5					
DKTL86B103-**XC	DL86B	DM6					
DKTL86A103-**XC	DL86A	DM6	0.047uF - M - X7R			50V / 100V / 200V	20A
DKTL64A473-**XC	DL64A	DM4					
DKTL64B104-**XC	DL64B	DM4		0.1uF - M - X7R	10A		
DKTL64A104-**XC	DL64A	DM4					
DKTL85B104-**XC	DL85B	DM5					
DKTL86B104-**XC	DL86B	DM6					
DKTL64A474-**XC	DL64A	DM4	0.47uF - M - X7R	50V / 100V	20A		
DKTL08G474-**XC	DL08G	DM8					
DKTL08F105-**XC	DL08F	DM8	1uF - M - X7R	50V	32A		
DKTL64A105-**XC	DL64A	DM4		50V / 100V / 200V	10A		
DKTL85B105-**XC	DL85B	DM5					
DKTL86B105-**XC	DL86B	DM6					

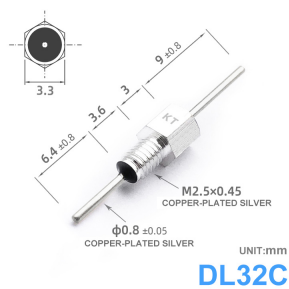
Note: ** in the code indicates different voltage codes, see Figure 2 for details.

Dimensions

DM2.5 series



capacity: 1000pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 1~7pF, 10pF, 100pF, 1000pF, 3300pF
current: ≤7A
Rated voltage: 50~200VDC

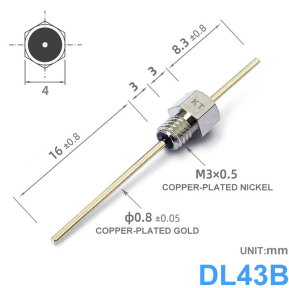


capacity: 10pF, 100pF, 1000pF
current: ≤7A
Rated voltage: 50~200VDC

DM3 series



capacity: 10pF, 100pF, 1000pF, 3300pF, 0.01uF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 1~7pF, 100pF, 1000pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 3300pF, 4700pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 1000pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 1000pF, 2200pF, 3300pF
current: ≤7A
Rated voltage: 50~200VDC



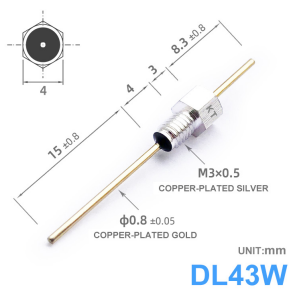
capacity: 10pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 3300pF, 4700pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 3300pF
current: ≤7A
Rated voltage: 50~200VDC



capacity: 100pF
current: ≤7A
Rated voltage: 50~200VDC

Dimensions

DM4 series



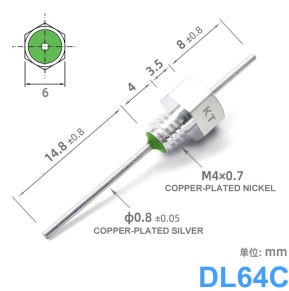
capacity: 1~7pF, 10pF, 3300pF, 4700pF
current: ≤7A
Rated voltage: 50~500VDC



capacity: 100pF, 1000pF, 3300pF, 4700pF,
0.01uF, 0.047uF, 0.1uF, 0.47uF, 1uF
current: ≤10A
Rated voltage: 50~500VDC



capacity: 1000pF, 3300pF, 4700pF, 0.1uF,
current: ≤7A
Rated voltage: 50~500VDC

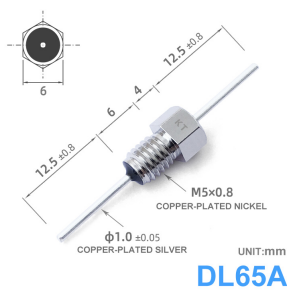


capacity: 100pF
current: ≤7A
Rated voltage: 50~500VDC

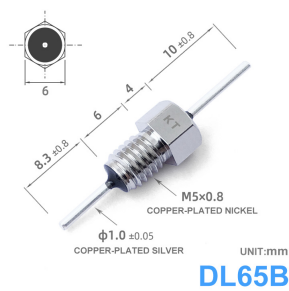


capacity: 1500pF, 2200pF
current: ≤10A
Rated voltage: 50~500VDC

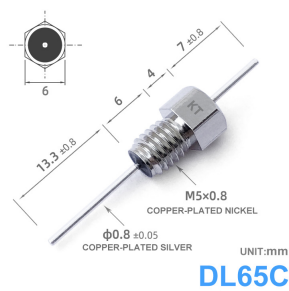
DM5 series



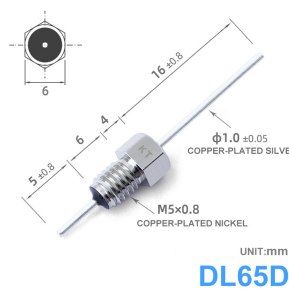
capacity: 1000pF, 1500pF, 3300pF, 4700pF
current: ≤10A
Rated voltage: 100~500VDC



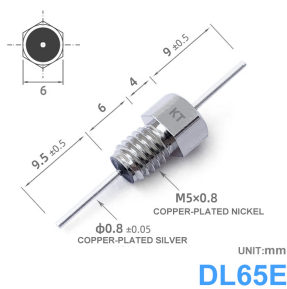
capacity: 1000pF, 1500pF, 3300pF,
4700pF, 0.01uF
current: ≤10A
Rated voltage: 50~500VDC



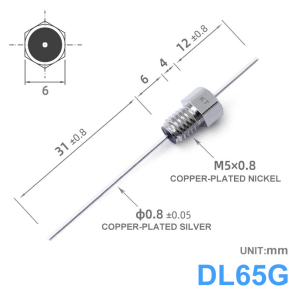
capacity: 1~7pF, 1000pF, 1500pF
current: ≤7A
Rated voltage: 100~500VDC



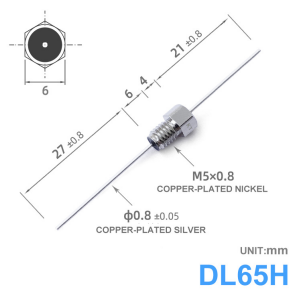
capacity: 1000pF, 1500pF
current: ≤10A
Rated voltage: 100~500VDC



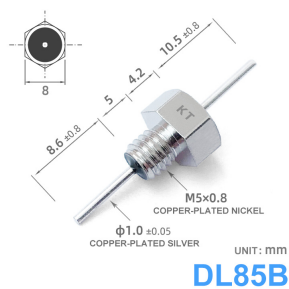
capacity: 1000pF, 1500pF
current: ≤7A
Rated voltage: 100~500VDC



capacity: 1000pF, 1500pF
current: ≤10A
Rated voltage: 50~500VDC



capacity: 1~7pF, 1000pF, 1500pF,
3300pF, 4700pF
current: ≤7A
Rated voltage: 100~500VDC



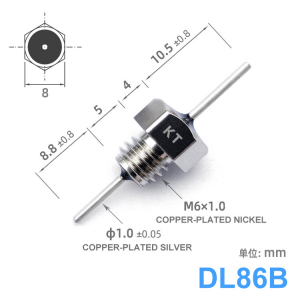
capacity: 0.01uF, 0.1uF, 1uF
current: ≤10A
Rated voltage: 50~200VDC

Dimensions

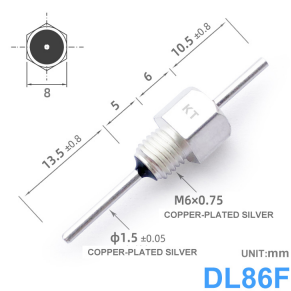
DM6 series



capacity: 10pF, 100pF, 2200pF,
4700pF, 0.01uF
current: ≤20A
Rated voltage: 100~500VDC /
250VAC



capacity: 100pF, 1000pF, 1500pF, 3300pF,
4700pF, 0.01uF, 0.1uF, 1uF
current: ≤10A
Rated voltage: 50~500VDC

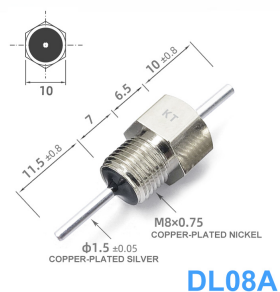


capacity: 10pF, 2000pF, 4700pF
current: ≤20A
Rated voltage: 100~500VDC /
250VAC



capacity: 3300pF
current: ≤7A
Rated voltage: 100~
200VDC

DM8 series

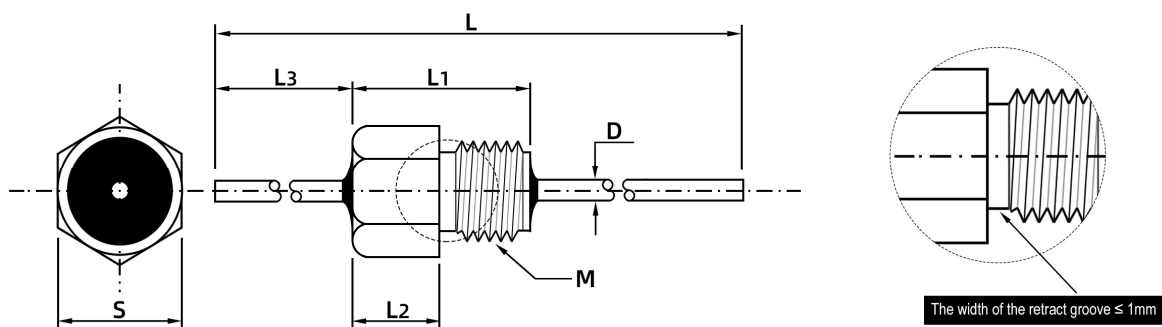


capacity: 10pF, 2200pF
current: ≤20A
Rated voltage: 200~1000VDC / 250~400VAC



capacity: 1000pF, 2500pF, 6800pF, 0.01uF
current: ≤32A
Rated voltage: 200~1000VDC / 250~400VAC

Figure 1 Product Dimensions Chart



Code size	M	S	L	L1	L2	L3	D	Copper case	Copper leads	Capacity/size are all customizable
DL32B	2.5×0.45	3.3	30	6.6	3	8	0.8	silver plating	gilded	
DL32C	2.5×0.45	3.3	22	6.6	3	9	0.8	silver plating	silver plating	
DL32D	2.5×0.45	3.3	30	6.6	3	8	0.8	silver plating	silver plating	
DL43A	3×0.5	4	30	7	3	8	0.8	silver plating	silver plating	
DL43B	3×0.5	4	30	6	3	8	0.8	nickel plated	gilded	
DL43C	3×0.5	4	30	6	3	8	0.8	nickel plated	silver plating	
DL43E	3×0.5	4	17	7	3	5	0.7	silver plating	silver plating	
DL43F	3×0.5	4	20	6	3	7	0.8	nickel plated	silver plating	
DL43G	3×0.5	4	20	7	3	7	0.8	silver plating	silver plating	
DL43H	3×0.5	4	24	6	2.5	14	0.8	nickel plated	silver plating	
DL43I	3×0.35	4	20	6	3	7	0.8	nickel plated	silver plating	
DL43W	3×0.5	4	30	7	3	8	0.8	silver plating	gilded	
DL54B	4×0.7	5	30	9	2.5	8	0.8	silver plating	silver plating	
DL64A	4×0.7	6	28	7.5	3.5	10	1	silver plating	silver plating	
DL64B	4×0.7	6	30	7.5	3.5	8	0.8	silver plating	silver plating	
DL64I	4×0.7	6	22	8.5	2.5	4.5	1	silver plating	silver plating	
DL65A	5×0.8	6	35	10	4	12.5	1	nickel plated	silver plating	
DL65B	5×0.8	6	28	10	4	10	1	nickel plated	silver plating	
DL65C	5×0.8	6	30	10	4	8	0.8	nickel plated	silver plating	
DL65D	5×0.8	6	35	10	4	16	1	nickel plated	silver plating	
DL65E	5×0.8	6	28	10	4	9	0.8	nickel plated	silver plating	
DL65G	5×0.8	6	54	10	4	12	0.8	nickel plated	silver plating	
DL65H	5×0.8	6	58	10	4	21	0.8	nickel plated	silver plating	
DL85B	5×0.8	8	28	9.2	4.2	10	1	nickel plated	silver plating	
DL86A	6×1.0	8	35	11	6	10	1.5	nickel plated	silver plating	
DL86B	6×1.0	8	28	9	4	10	1	silver plating	silver plating	
DL86F	6×0.75	8	35	11	6	10	1.5	nickel plated	silver plating	
DL08A	8×0.75	10	35	13.5	6.5	10	1.5	silver plating	silver plating	
DL08E	8×0.75	10	38	13.5	6.5	10	2.45	nickel plated	silver plating	
DL08F	8×0.75	10	35	13.5	6.5	10	1.5	nickel plated	silver plating	
DL08G	8×0.75	10	38	13.5	6.5	10	2.45	silver plating	silver plating	
error		±0.1	±0.8	±0.2	±0.1	±0.8	±0.05	silver plating	silver plating	

All sizes are in mm, 1 inch = 25.4mm.

Mounting threads	M2.5	M3	M4	M5	M6	M8
Torque is recommended	0.15Nm	0.2 Nm	0.3 Nm	0.5 Nm	0.8Nm	1.2 Nm

Figure 2 Operating voltage code table

	A	B	C	D	E	F	G	H	J	K
0	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8
1	10	12.5	16	20	25	31.5	40	50	63	80
2	100	125	160	200	250	315	400	500	630	800
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000
4	10000	12500	16000	20000	25000	31500	40000	50000	63000	80000
	DC	AC	DC	DC	AC	DC	AC	DC	DC	DC

1H	50VDC	2E	250VAC
1J	63VDC	2G	400VAC
2A	100VDC	2H	500VDC
2B	125VAC	2K	800VDC
2D	200VDC	3A	1000VDC

Insertion loss

circuit	Capacity (code)	10Khz	100Khz	1MHz	10MHz	100MHz	300MHz	1GHz	10GHz
C	10pF (100)						3	6	20
	25pF (250)						4	10	25
	100pF (101)					3	10	20	28
	500pF (501)				3	15	18	35	40
	1000pF (102)				5	20	30	35	45
	1500pF (152)				6	22	32	37	47
	2200pF (222)				8	25	33	40	51
	3300pF (332)			5	12	27	34	43	53
	4700pF (472)			6	15	30	38	45	55
	6800pF (682)			7	17	33	40	50	56
	0.01μF (103)			8	21	35	45	52	60
	0.015μF (153)			10	22	37	47	55	65
	0.047μF (473)		3	15	35	45	50	60	68
	0.1μF (104)		5	22	40	48	54	65	
	0.47μF (474)	5	15	30	45	60	70		
	1μF (105)	10	25	38	52	70			

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