

Capacitive Filters — continued

Capacitive — DLT Series



Mounting hole dia = 5.1, Chassis thickness = 1.2 to 1.6
Overall length = 65.5, Body size: L = 11.5, W = 6.3
Lead: L = 27, Dia. = 0.9 nom, Thread = 2BA.

- Multi-layer ceramic lead-through capacitors finished in tin over brass for low pass filtering applications
- High capacitance and low self-inductance give resonance free operation up to 15GHz and beyond
- Colour coded identification
- Approved to **BS9075** and **CECC 30701-024**.

Tolerance	-20% to +80%	Operating temperature	-40°C to +100°C
Rating	10A @ 100V	Temperature coefficient	-55% to +20%
Power factor @ 1kHz	0.03		

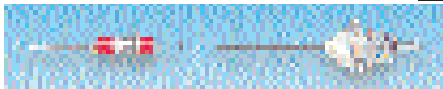
pF	Colour Code	Attenuation dB (50Ω System)					Order Code
		0.1MHz	1MHz	10MHz	100MHz	1GHz	
1000	Brown	0	0	9	27	40	149-150
4700	Red	0	3	20	38	53	149-151

Mftrs. List No. DLT+Value

FIL55

pF	Order Code	Price Each				
		1+	10+	50+	100+	250+
1000	.149-150					
4700	.149-151					

Pi-Section — 4101 & 4209 Series



Solder mount 106-775 106-776 Bush mount 106-777 106-778
Body length = 10.3, Body diameter = 4.95 Body length = 12.3, Body diameter = 6.35
Max height above panel = 7.9 Thread = M5 0.8
Max height below panel = 10.3 (106-775) 18.0 (106-776) Max height above panel = 9.5
Mounting hole dia. = 4.0 Max height below panel = 23.4
Mounting hole dia. = 5.1

- Pi-section suppression filters in both chassis and solder mount styles
- Combines a ceramic capacitor with a ferrite inductor
- Can be used to suppress unwanted EMI/RFI in a wide range of applications where a high insertion loss is required from 10MHz to 10GHz

Current rating	10A	Operating temperature	-55°C to +125°C
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Solder Mount

Capacitance pF (min)	Voltage Rating		Attenuation dB (50Ω System)				Mftrs. List No.	Order Code
	85°C	125°C	10MHz	100MHz	1GHz	10GHz		
1500	350	200	5	45	70	70	4101-001	106-775
5500	140	70	15	55	70	70	4101-008	106-776

Chassis Mount

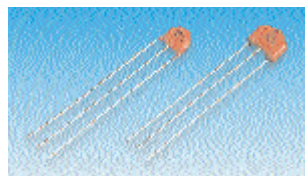
Capacitance pF	Voltage Rating		Attenuation dB (50Ω System)				Mftrs. List No.	Order Code
	85°C	125°C	10MHz	100MHz	1GHz	10GHz		
1500	350	200	5	45	70	70	4209-003	106-777
5000	200	100	20	65	70	70	4209-053	106-778

FIL56

pF	Order Code	Price Each			
		1+	10+	50+	100+
Solder Mount					
1500	.106-775				
5500	.106-776				
Chassis Mount					
1500	.106-777				
5000	.106-778				

3 Terminal PCB Filters

Standard



H = 8, W = 8, D = 2.54, Lead Length = 25, Lead pitch = 2.5, Lead dia. = 0.6

- Three terminal T-networks offer a lower residual inductance than that of standard two terminal capacitors
- Bypass capacitor provides a path for high frequency noise to earth and ensures excellent high frequency attenuation
- Typical applications include noise suppression in office equipment, computers, TV, VCR and automotive electronics.
- Note: DSS types have ferrite beads on input and output leads.

Rating	6A	Operating temperature	-25°C to +85°C
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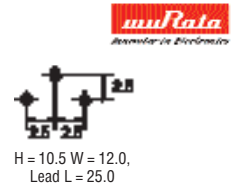
Capacitance pF	Tolerance	Effective Frequency Range (50Ω Series) 20dB min) MHz	Voltage Rating dc	Ferrite Beads	Mftrs. List No.	Order Code
47	±20%	800 to 1100	50	No	DS306-55Y5S470M50	580-831
100	±20%	600 to 1050	50	No	DS306-55Y5S101M50	580-843
1000	±20%	90 to 1000	50	No	DS306-55Y5S102M50	580-867
2200	±20%	50 to 1000	50	No	DS306-55Y5S222M50	580-879
10000	+80% to -20%	8 to 1000	50	No	DS306-55YFZ103Z50	580-880
22	±20%	800 to 1100	100	Yes	DSS306-55Y5S220M100	580-892
47	±20%	400 to 1100	100	Yes	DSS306-55Y5S470M100	580-909
100	±20%	200 to 1050	100	Yes	DSS306-55Y5S101M100	108-261
220	±20%	110 to 1000	100	Yes	DSS306-55Y5S221M100	108-262
270	±20%	90 to 1000	100	Yes	DSS306-55Y5S271M100	580-910
470	±20%	70 to 1000	100	Yes	DSS306-55Y5S471M100	580-922
1000	±20%	20 to 1000	100	Yes	DSS306-55Y5S102M100	108-263
2200	+80% to -20%	10 to 1000	100	Yes	DSS306-55Y5U222Z100	108-264
10000	±30%	7 to 1000	100	Yes	DSS306-55FFZ103M100	108-265
22000	+80% to -20%	2 to 1000	16	Yes	DSS306-55F223Z16	580-934

FIL148

pF	Order Code	Price Each			
		5+	50+	100+	1000+
50 Volt dc					
47	.580-831†				
100	.580-843				
1000	.580-867				
2200	.580-879				
10000	.580-880				
100 Volt dc					
22	.580-892				
47	.580-909				
100	.108-261				
220	.108-262				
270	.580-910				
470	.580-922				
1000	.108-263				
2200	.108-264				
10000	.108-265				
16 Volt dc					
22000	.580-934				

† Available until stocks are exhausted

310 Series



Wide band noise suppression filter made with high performance ferrite material. High attenuation over a wide band. Available with and without ferrite beads.

Rating	7A	Operating temperature	-25°C to +85°C
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Capacitance pF	Tolerance	Effective frequency range (50Ω series) 20 dB min) MHz	Voltage Rating	Ferrite Beads	Mftrs. List No.	Order Code
22000	+50% to -20%	40 to 900	50	No	DS310-55Y5S 223S 50	580-946
100000	±20%	0.8 to 1000	16	No	DS310-55Y5S 104M 16	580-958
22	±20%	300 to 1100	100	Yes	DSS310-55Y5S 220M 100	580-960
47	±20%	200 to 1000	100	Yes	DSS310-55Y5S 470M 100	580-971
100	±20%	150 to 1000	100	Yes	DSS310-55Y5S 101M100	580-983
270	±20%	90 to 1000	100	Yes	DSS310-55Y5 S 271M100	580-995
2200	±20%	20 to 1000	100	Yes	DSS310-55Y5S 222M100	581-008
22000	+50% to -20%	3 to 1000	50	Yes	DSS310-55Y5S 223S50	581-010
22	±20%	500 to 1200	250	Yes	DSS310H-55B220M250	581-021
100	±20%	100 to 1100	250	Yes	DSS310H-55B101M250	581-033
270	±20%	80 to 1100	250	Yes	DSS310H-55B271M250	581-045
2200	±20%	20 to 1100	250	Yes	DSS310H-55B222M250	581-057

FIL147

pF	Volts dc	Order Code	Price Each			
			5+	50+	100+	1000+
22000	50	.580-946				
100000	16	.580-958				
22	100	.580-960†				
47	100	.580-971†				
100	100	.580-983†				
270	100	.580-995				
2200	100	.581-008				
22000	50	.581-010				
22	250	.581-021†				
100	259	.581-033†				
270	250	.581-045				
2200	250	.581-057				

† Available until stocks are exhausted