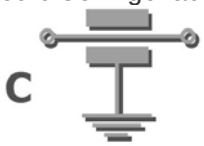
Filter Type
SFSSC

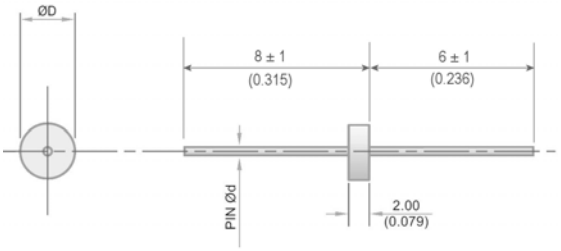
Solder Mount EMI Filter Datasheet

(Discoidal Capacitors with Leads)

Circuit Configuration



Dimensions mm (inches)



Standard dimensions shown. Lead lengths can be customised – Refer to factory.

Electrical Details

Electrical Configuration	C Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	See Table
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55°C to +125°C
Ferrite Inductance (Typical)	Not Applicable

Mechanical Details

Max Soldering Temperature	250°C
Temperature Rise	Less than 4°C per second
Soldering Time	10 seconds maximum
Solder Type	Sn62/SAC or equivalent
Pin Material	Copper alloy (silver plated)

Dielectric Withstand Voltage (D.W.V.)

Rated Voltage	D.W.V.	Rated Voltage	D.W.V.
50Vdc	125Vdc	500Vdc	750Vdc
100Vdc	250Vdc	1000Vdc	1250Vdc
200Vdc	500Vdc	2000Vdc	2500Vdc
300Vdc	600Vdc	3000Vdc	3750Vdc

Suffix Code	0066				0096					0046					0038					0097							
Cap. Diameter (D)	2.3mm *(0.091")*				2.8mm *(0.110")*					3mm *(0.118")*					5mm *(0.197")*					8.75mm *(0.344")*							
Pin Diameter (d)	0.7mm *(0.028")*				0.7mm *(0.028")*					0.7mm *(0.028")*					0.7mm *(0.028")*					1.0mm *(0.039")*							
Capacitance Tol.	-20%+80%				-20%+80% up to 47pF					-20%+80% up to 47pF					±20%					±20%							
					±20% 68pF & above					±20% 68pF & above																	
Max Current Rating	10A				10A					10A					10A					15A							
Rated Voltage d.c.	50V	100V	200V	500V	50V	100V	200V	300V	500V	50V	100V	200V	300V	500V	50V	100V	200V	300V	500V	50V	100V	200V	300V	500V	1kV	2kV	3kV
Cap value																											
10pF				C0G										C0G												C0G	
15pF														C0G												C0G	
22pF				C0G										C0G												C0G	
33pF														C0G												C0G	
47pF				C0G										C0G												C0G	
68pF														C0G												C0G	
100pF				C0G										C0G													C0G
150pF														C0G													C0G
220pF				C0G										C0G													C0G
330pF														C0G												C0G	
470pF				X7R										†X7R												C0G	
680pF														†X7R												C0G	
1.0nF				X7R					X7R					X7R												C0G	
1.5nF									X7R					X7R												X7R	
2.2nF				X7R					X7R					X7R												X7R	
3.3nF									X7R					X7R												X7R	
4.7nF				X7R					X7R					X7R												X7R	
6.8nF									X7R					X7R												X7R	
10nF			X7R						X7R					X7R												X7R	
15nF									X7R					X7R											X7R		
22nF		X7R							X7R					X7R											X7R		
33nF								X7R						X7R											X7R		
47nF	X7R						X7R					X7R							X7R						X7R		
68nF						X7R						X7R							X7R						X7R		
100nF					X7R						X7R								X7R					X7R			
150nF										X7R									X7R					X7R			
220nF																	X7R							X7R			
330nF																X7R								X7R			
470nF																X7R								X7R			
680nF															X7R								X7R				
1.0µF																						X7R					
1.5µF																					X7R						
2.2µF																					X7R						
3.3µF																				X7R							

† Also available in C0G

Ordering Information

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Nuts & washers	Suffix Code
SF	S	S	C	500	0102	M	X	0	
Syfer Filter	Solder	S=Special (no case)	C = C Filter	050 = 50V 100 = 100V 200 = 200V 500 = 500V 1K0 = 1kV 2K0 = 2kV 3K0 = 3kV	First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is the number of zeros following. Examples: 0101 = 100pF 0332 = 3300pF	M = ± 20% Z = -20+80%	C = C0G/NP0 X = X7R	0 = Without	/0066 /0096 /0046 /0097

Note: The addition of a 4-digit numerical suffix code can be used to denote changes to the standard part.

Options include for example: change of pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements.

Please refer specific requests to the factory.

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