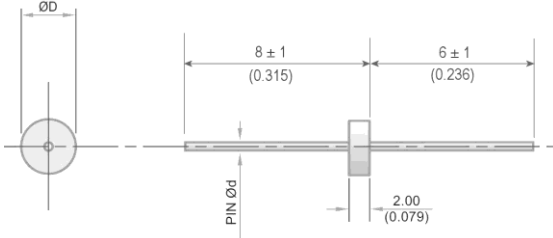


Solder Mount EMI Filter Datasheet
(Discoidal Capacitors with Leads)

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	1200Vdc
200Vdc	500Vdc	2000Vdc	2400Vdc
300Vdc	550Vdc	3000Vdc	3600Vdc

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% 68pF & above					-20%+80% up to 47pF ±20% 68pF & above					±20%					±20%												
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	50V	100V	200V	300V	500V	1kV	2kV	3kV
Cap value					COG										COG																		COG
10pF					COG										COG																		
15pF					COG										COG																		
22pF					COG										COG																		
33pF					COG										COG																		
47pF					COG										COG																		
68pF					COG										COG																		
100pF					COG										COG																		COG
150pF					COG										COG																		COG
220pF					COG										COG																		COG
330pF															COG																		
470pF					X7R										†X7R																		COG
680pF															†X7R																		COG
1.0nF					X7R					X7R					X7R																		COG
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
68nF										X7R					X7R																		X7R
100nF										X7R					X7R																		X7R
150nF										X7R					X7R																		X7R
220nF										X7R					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 COG

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 = COG/NPO 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.

