

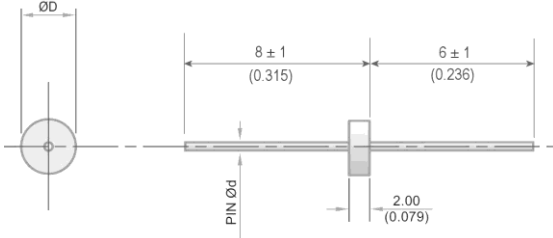
# Solder Mount EMI Filter Datasheet

(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																		
150pF					COG										COG																		
220pF					COG										COG																		
330pF					COG										COG																		
470pF					X7R										†X7R																		
680pF					X7R										†X7R																		
1.0nF					X7R					X7R					X7R																		
1.5nF					X7R					X7R					X7R																		
2.2nF					X7R					X7R					X7R																		
3.3nF					X7R					X7R					X7R																		
4.7nF					X7R					X7R					X7R																		
6.8nF					X7R					X7R					X7R																		
10nF					X7R					X7R					X7R																		
15nF					X7R					X7R					X7R																		
22nF					X7R					X7R					X7R																		
33nF					X7R					X7R					X7R																		
47nF					X7R					X7R					X7R																		
68nF					X7R					X7R					X7R																		
100nF					X7R					X7R					X7R																		
150nF					X7R					X7R					X7R																		
220nF					X7R					X7R					X7R																		
330nF					X7R					X7R					X7R																		
470nF					X7R					X7R					X7R																		
680nF					X7R					X7R					X7R																		
1.0µF					X7R					X7R					X7R																		
1.5µF					X7R					X7R					X7R																		
2.2µF					X7R					X7R					X7R																		
3.3µF					X7R					X7R					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.

