

HFG SERIES

105°C High Capacitance, High Ripple Current, 4-pin Snap-in Terminal Type

•Load Life : 105°C 5000 hours.

RoHS
compliance



SPECIFICATIONS

Items	Characteristics											
Category Temperature Range	-25~+105℃											
Rated Voltage Range	350~450Vdc											
Capacitance Tolerance	±20% (20℃,120Hz)											
Leakage Current(MAX)	I=3 √CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)											
Dissipation Factor(MAX) (tanδ)	0.2 (20℃,120Hz)											
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="2">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="2">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="2">Not more than the specified value.</td></tr></table>			Capacitance Change	Within ±20% of the initial value.		Dissipation Factor	Not more than 200% of the specified value.		Leakage Current	Not more than the specified value.	
Capacitance Change	Within ±20% of the initial value.											
Dissipation Factor	Not more than 200% of the specified value.											
Leakage Current	Not more than the specified value.											
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>350~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>8</td></tr></table>	Rated Voltage (Vdc)	350~450	Z(-25℃)/Z(20℃)	8	(120Hz)						
Rated Voltage (Vdc)	350~450											
Z(-25℃)/Z(20℃)	8											

MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120(100)	300	500	1k	10k≤
Coefficient	0.80	1.00	1.15	1.20	1.25	1.40

OPTION

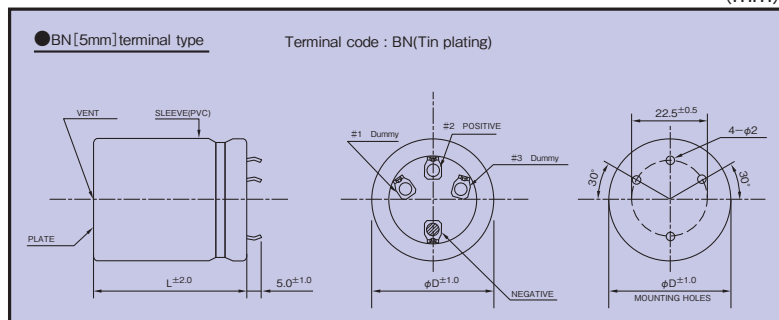
	Code
PVC Sleeve with plate	Blank

PART NUMBER

□□□ HFG □□□□□ M □□□ BN D×L
 Rated Voltage Series Capacitance Capacitance Tolerance Option Terminal Code Case Size

DIMENSIONS

(mm)



◆STANDARD SIZE

Cap(μF) Vdc φD	350					
	φ35		φ40		φ45	
560	35×50	3.05				
680	35×55	3.35				
820	35×60	3.64	40×50	3.46		
1000	35×70	4.12	40×60	4.05	45×50	3.71
1200	35×80	4.58	40×65	4.33	45×55	4.01
1500	35×95	5.22	40×80	5.11	45×65	4.62
1800			40×90	5.59	45×75	5.19
2200					45×85	5.69
2700					45×100	6.43

Cap(μF) Vdc φD	400					
	φ35		φ40		φ45	
560	35×50	3.03				
680	35×60	3.50	40×50	3.38		
820	35×65	3.78	40×55	3.69		
1000	35×75	4.25	40×65	4.24	45×50	3.61
1200	35×95	4.97	40×75	4.75	45×60	4.26
1500			40×90	5.40	45×70	4.83
1800					45×80	5.36
2200					45×100	6.30

Cap(μF) Vdc φD	420					
	φ35		φ40		φ45	
470	35×50	2.85				
560	35×55	3.12	40×50	3.22		
680	35×65	3.57	40×55	3.52		
820	35×75	4.00	40×60	3.81	45×50	3.52
1000	35×85	4.44	40×70	4.32	45×60	4.13
1200	35×100	5.00	40×80	4.80	45×65	4.40
1500			40×95	5.48	45×80	5.21
1800					45×90	5.70

Cap(μF) Vdc φD	450					
	φ35		φ40		φ45	
390	35×50	2.76				
470	35×55	3.03				
560	35×60	3.30	40×50	3.14		
680	35×70	3.76	40×60	3.66	45×50	3.41
820	35×80	4.20	40×70	4.18	45×55	3.71
1000	35×95	4.78	40×75	4.47	45×65	4.34
1200			40×90	5.12	45×70	4.59
1500					45×85	5.36
1800					45×100	6.08

↑
 Ripple Current (A r.m.s./120Hz, 105°C)
 Case Size φD×L(mm)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Rubycon:

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[450HFG680MBN45X50](#) [450HFG820MBN35X80](#) [450HFG820MBN40X70](#) [450HFG820MBN45X55](#)
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[350HFG1800MBN45X75](#) [350HFG2200MBN45X85](#)