

HXH series

105°C 5000時間 標準品 -40°C対応
Load Life : 105°C 5000 hours, Standard, -40°C~+105°C

AEC-Q200



車載用 For Automotive



◆規格表／SPECIFICATIONS

項目 Item	特性 Characteristics													
カテゴリ温度範囲 Category Temperature Range	-40～+105℃													
定格電圧範囲 Rated Voltage Range	400～450Vdc													
静電容量許容差 Capacitance Tolerance	±20% (20℃, 120Hz)													
漏れ電流 Leakage Current (MAX)	I=3√CV (定格電圧印加5分後) I=3√CV (After 5 minutes application of rated voltage) I=漏れ電流 (μA) C=静電容量 (μF) V=定格電圧 (Vdc) Leakage Current Capacitance Rated Voltage													
損失角の正接 (tan δ) Dissipation Factor (MAX)	<table><tr><td>定格電圧 (Vdc) Rated Voltage</td><td>400～ 450</td></tr><tr><td>tan δ</td><td>0.20</td></tr></table> (20℃, 120Hz)		定格電圧 (Vdc) Rated Voltage	400～ 450	tan δ	0.20								
定格電圧 (Vdc) Rated Voltage	400～ 450													
tan δ	0.20													
耐久性 Endurance	105℃中で5000時間(又は3000時間)定格電圧(リプル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for 5000hours(or 3000hours) at 105℃, the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率 Capacitance Change</td><td>初期値の ±20% 以内 Within ±20% of the initial value.</td></tr><tr><td>損失角の正接 Dissipation Factor</td><td>規格値の 200% 以下 Not more than 200% of the specified value.</td></tr><tr><td>漏れ電流 Leakage Current</td><td>規格値以下 Not more than the specified value.</td></tr></table>		静電容量変化率 Capacitance Change	初期値の ±20% 以内 Within ±20% of the initial value.	損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.						
静電容量変化率 Capacitance Change	初期値の ±20% 以内 Within ±20% of the initial value.													
損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.													
漏れ電流 Leakage Current	規格値以下 Not more than the specified value.													
低温特性 Low Temperature Stability	インピーダンス比(MAX) Impedance Ratio (MAX) (120Hz) <table><tr><td>定格電圧 (Vdc) Rated Voltage</td><td>400～450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>6</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>8</td></tr></table>	定格電圧 (Vdc) Rated Voltage	400～450	Z(-25℃)/Z(+20℃)	6	Z(-40℃)/Z(+20℃)	8	静電容量変化率 Capacitance Change (120Hz) <table><tr><td>定格電圧 (Vdc) Rated Voltage</td><td>400～450</td></tr><tr><td>[C(-25℃)-C(+20℃)] / C(+20℃)</td><td>-20%～0%</td></tr><tr><td>[C(-40℃)-C(+20℃)] / C(+20℃)</td><td>-40%～0%</td></tr></table>	定格電圧 (Vdc) Rated Voltage	400～450	[C(-25℃)-C(+20℃)] / C(+20℃)	-20%～0%	[C(-40℃)-C(+20℃)] / C(+20℃)	-40%～0%
定格電圧 (Vdc) Rated Voltage	400～450													
Z(-25℃)/Z(+20℃)	6													
Z(-40℃)/Z(+20℃)	8													
定格電圧 (Vdc) Rated Voltage	400～450													
[C(-25℃)-C(+20℃)] / C(+20℃)	-20%～0%													
[C(-40℃)-C(+20℃)] / C(+20℃)	-40%～0%													

◆呼称方法／PART NUMBER

□□□	HXH	□□□□□	M	EPA	□□	D x L
定格電圧 Rated Voltage	シリーズ名 Series	静電容量 Capacitance	静電容量許容差 Capacitance Tolerance	副記号 Option	端子記号 Terminal Code	ケースサイズ Case Size

◆リプル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

周波数 (Hz) Frequency	60 (50)	120 (100)	300	500	1k	10k≤
係数 Coefficient	400~450Vdc 0.80	1.00	1.15	1.20	1.25	1.40

◆副記号／OPTION

EPA : PET スリーブ、底板なし

◆端子記号／Terminal Code

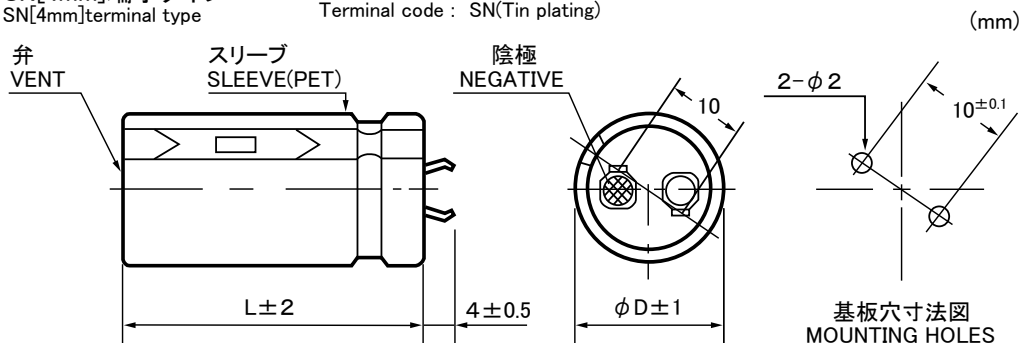
SN : 標準端子 Standard Terminal

その他の形状は端子形状一覧をご確認ください。
For other type, please refer to the list of terminal type.

◆寸法図／DIMENSIONS

●SN[4mm]端子タイプ
SN[4mm]terminal type

端子記号 : SN(錫メッキ)
Terminal code : SN(Tin plating)



◆標準品一覧表／STANDARD SIZE

400Vdc									
Cap.(μ F)	ϕ 20			ϕ 22			ϕ 25		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
100	20×25	0.82	1.16						
120	20×30	0.94	1.33	22×25	0.92	1.31			
150	20×35	1.10	1.55	22×30	1.08	1.54			
180	20×40	1.25	1.76	22×30	1.16	1.64	25×25	1.12	1.59
220	20×45	1.42	2.00	22×35	1.34	1.90	25×30	1.31	1.86
270	20×55	1.65	2.34	22×40	1.51	2.14	25×35	1.51	2.14
330	20×60	1.82	2.58	22×50	1.81	2.56	25×40	1.72	2.43
390				22×55	1.99	2.81	25×45	1.91	2.71
470							25×50	2.11	2.97
560							25×60	2.45	3.45

400Vdc						
Cap.(μ F)	ϕ 30			ϕ 35		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
220	30×25	1.33	1.89			
270	30×30	1.56	2.20			
330	30×30	1.66	2.34	35×25	1.55	2.20
390	30×35	1.90	2.68	35×30	1.83	2.59
470	30×40	2.14	3.03	35×35	2.09	2.96
560	30×45	2.39	3.37	35×35	2.15	3.04
680	30×55	2.78	3.94	35×45	2.63	3.72
820				35×50	2.91	4.12
1000				35×60	3.36	4.75

420Vdc									
Cap.(μ F)	ϕ 20			ϕ 22			ϕ 25		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
82	20×25	0.75	1.07						
100	20×30	0.87	1.24						
120	20×30	0.95	1.34	22×25	0.93	1.31			
150	20×35	1.10	1.56	22×30	1.09	1.54	25×25	1.06	1.50
180	20×40	1.25	1.76	22×35	1.24	1.76	25×30	1.22	1.73
220	20×50	1.47	2.08	22×40	1.42	2.01	25×30	1.31	1.86
270	20×55	1.64	2.33	22×45	1.61	2.28	25×35	1.51	2.14
330				22×50	1.78	2.52	25×40	1.70	2.41
390				22×60	2.07	2.93	25×45	1.89	2.67
470							25×55	2.23	3.13

ケースサイズ Case Size ϕ D × L(mm) $\rightarrow$
リプル電流 Ripple Current (A.r.m.s./120Hz, 105°C) $\rightarrow$

◆標準品一覧表／STANDARD SIZE

420Vdc						
Cap.(μ F)	ϕ 30			ϕ 35		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
220	30×25	1.33	1.89			
270	30×30	1.56	2.21	35×25	1.49	2.11
330	30×35	1.79	2.53	35×30	1.74	2.47
390	30×35	1.87	2.65	35×30	1.82	2.57
470	30×45	2.25	3.19	35×35	2.09	2.95
560	30×50	2.50	3.54	35×40	2.35	3.32
680	30×60	2.89	4.08	35×45	2.62	3.70
820				35×55	3.05	4.32
1000				35×60	3.32	4.69

450Vdc									
Cap.(μ F)	ϕ 20			ϕ 22			ϕ 25		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
82	20×25	0.76	1.07						
100	20×30	0.88	1.25	22×25	0.86	1.22			
120	20×35	1.00	1.42	22×30	1.00	1.41			
150	20×40	1.16	1.65	22×30	1.09	1.54	25×25	1.06	1.50
180	20×45	1.31	1.85	22×35	1.25	1.77	25×30	1.23	1.74
220	20×50	1.46	2.06	22×40	1.41	2.00	25×35	1.41	1.99
270	20×60	1.70	2.41	22×50	1.68	2.38	25×40	1.60	2.27
330				22×55	1.86	2.63	25×45	1.81	2.56
390							25×50	1.99	2.80
470							25×60	2.31	3.26

450Vdc						
Cap.(μ F)	ϕ 30			ϕ 35		
	Endurance	5000hours	3000hours	Endurance	5000hours	3000hours
180	30×25	1.24	1.76			
220	30×30	1.45	2.05			
270	30×30	1.56	2.21	35×25	1.48	2.09
330	30×35	1.79	2.54	35×30	1.74	2.46
390	30×40	2.01	2.85	35×35	1.98	2.80
470	30×45	2.25	3.16	35×40	2.23	3.16
560	30×55	2.60	3.69	35×45	2.49	3.51
680	30×60	2.84	4.02	35×50	2.76	3.90
820				35×60	3.17	4.48

ケースサイズ Case Size ϕ D × L(mm) $\longrightarrow$
 リプル電流 Ripple Current (A.r.m.s./120Hz,105°C) $\longrightarrow$

Mouser Electronics

Authorized Distributor

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

Rubycon:

400HXXH1000MEPASN35X60	400HXXH100MEPASN20X25	400HXXH120MEPASN20X30	400HXXH120MEPASN22X25
400HXXH150MEPASN20X35	400HXXH150MEPASN22X30	400HXXH180MEPASN20X40	400HXXH180MEPASN22X30
400HXXH180MEPASN25X25	400HXXH220MEPASN20X45	400HXXH220MEPASN22X35	400HXXH220MEPASN25X30
400HXXH220MEPASN30X25	400HXXH270MEPASN22X40	400HXXH270MEPASN25X35	400HXXH270MEPASN30X30
400HXXH330MEPASN22X50	400HXXH330MEPASN25X40	400HXXH330MEPASN30X30	400HXXH330MEPASN35X25
400HXXH390MEPASN22X55	400HXXH390MEPASN25X45	400HXXH390MEPASN30X35	400HXXH390MEPASN35X30
400HXXH470MEPASN25X50	400HXXH470MEPASN30X40	400HXXH470MEPASN35X35	400HXXH560MEPASN25X60
400HXXH560MEPASN30X45	400HXXH560MEPASN35X35	400HXXH680MEPASN30X55	400HXXH680MEPASN35X45
400HXXH820MEPASN35X50	420HXXH1000MEPASN35X60	420HXXH100MEPASN20X30	420HXXH120MEPASN20X30
420HXXH120MEPASN22X25	420HXXH150MEPASN20X35	420HXXH150MEPASN22X30	420HXXH150MEPASN25X25
420HXXH180MEPASN20X40	420HXXH180MEPASN22X35	420HXXH180MEPASN25X30	420HXXH220MEPASN20X50
420HXXH220MEPASN22X40	420HXXH220MEPASN25X30	420HXXH220MEPASN30X25	420HXXH270MEPASN22X45
420HXXH270MEPASN25X35	420HXXH270MEPASN30X30	420HXXH270MEPASN35X25	420HXXH330MEPASN22X50
420HXXH330MEPASN25X40	420HXXH330MEPASN30X35	420HXXH330MEPASN35X30	420HXXH390MEPASN22X60
420HXXH390MEPASN25X45	420HXXH390MEPASN30X35	420HXXH390MEPASN35X30	420HXXH470MEPASN25X55
420HXXH470MEPASN30X45	420HXXH470MEPASN35X35	420HXXH560MEPASN30X50	420HXXH560MEPASN35X40
420HXXH680MEPASN30X60	420HXXH680MEPASN35X45	420HXXH820MEPASN35X55	420HXXH82MEPASN20X25
450HXXH100MEPASN20X30	450HXXH100MEPASN22X25	450HXXH120MEPASN20X35	450HXXH120MEPASN22X30
450HXXH150MEPASN20X40	450HXXH150MEPASN22X30	450HXXH150MEPASN25X25	450HXXH180MEPASN20X45
450HXXH180MEPASN22X35	450HXXH180MEPASN25X30	450HXXH180MEPASN30X25	450HXXH220MEPASN20X50
450HXXH220MEPASN22X40	450HXXH220MEPASN25X35	450HXXH220MEPASN30X30	450HXXH270MEPASN22X50
450HXXH270MEPASN25X40	450HXXH270MEPASN30X30	450HXXH270MEPASN35X25	450HXXH330MEPASN22X55
450HXXH330MEPASN25X45	450HXXH330MEPASN30X35	450HXXH330MEPASN35X30	450HXXH390MEPASN25X50
450HXXH390MEPASN30X40	450HXXH390MEPASN35X35	450HXXH470MEPASN25X60	450HXXH470MEPASN30X45
450HXXH470MEPASN35X40	450HXXH560MEPASN30X55	450HXXH560MEPASN35X45	450HXXH680MEPASN30X60