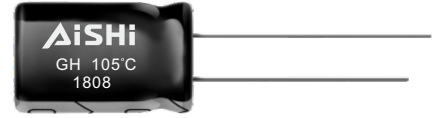


GH series

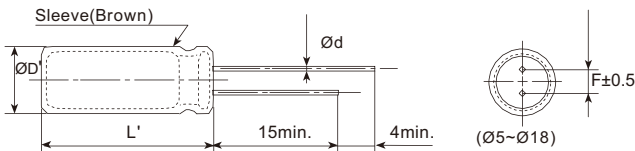
- Endurance: 5,000~10,000 hours at 105°C
- Especially designed for electronic ballast, intelligent instrument, etc.
- **RoHS Compliant**



SPECIFICATIONS

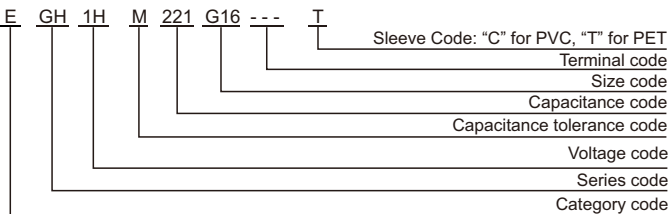
Items	Characteristics												
Category Temperature Range	-40~+105°C												
Rated Voltage Range	6.3~450 V _{dc}												
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)												
Leakage Current	6.3~100V _{dc}					160~450V _{dc}					Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C)		
	CV	After 2 minutes				I ≤ 0.01CV + 10μA (2 minutes)							
	CV ≤ 1,000	I ≤ 0.01CV or 3μA Whichever is greater											
CV > 1,000	I ≤ 0.006CV + 4μA												
Dissipation Factor (tanδ)	Rated Voltage (V _{dc})	6.3	10	16	25	35	50	63	100	160~250	350~450		
	Dissipation Factor (Max.)	0.30	0.24	0.20	0.18	0.16	0.14	0.12	0.10	0.15	0.20		
When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)													
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (V _{dc})	6.3	10	16	25	35	50	63	100	160~250	350~450		
	Z(-25°C)/Z(+20°C)	5	4	3	2			3			6		
	Z(-40°C)/Z(+20°C)	12	10	8	5	4	3			7	7		
(at 120Hz)													
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a specified period of time at 105°C.												
	Capacitance Change	≤ ±20% of the initial value (6.3V, 10V: ≤ ±30%)									Case Dia. (mm)	Load life (hours)	
	Dissipation Factor	≤ 200% of the initial specified value									ØD ≤ 6.3	5,000	-
	Leakage Current	≤ The initial specified value									ØD = 8 & 10	6,000	7,000
											ØD ≥ 12.5	8,000	10,000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1000 hours.												
	Capacitance Change	≤ ±20% of the initial value (6.3V, 10V: ≤ ±30%)											
	Dissipation Factor	≤ 200% of the initial specified value											
	Leakage Current	≤ 200% of the initial specified value											

DIMENSIONS [mm]



ØD	5	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD + 0.5 max.						
L'	L + 2 max.						

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq. (Hz)	50/60	100/120	1k	10k	100k
Cap. (μF)					
Cap. ≤ 330	0.35	0.50	0.75	0.85	1.00
330 < Cap. ≤ 1500	0.45	0.65	0.85	0.90	1.00
Cap. > 1500	0.53	0.75	0.90	0.95	1.00

GH series

■ STANDARD RATINGS

VV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number
6.3	150	5×11	91	EGH0JM151D11---T
	330	6.3×11	151	EGH0JM331E11---T
	680	8×12	228	EGH0JM681F12---T
	820	10×13	256	EGH0JM821G13---T
	1000	8×16	272	EGH0JM102F16---T
	1200	8×20	386	EGH0JM122F20---T
	1200	10×16	386	EGH0JM122G16---T
	1500	10×20	513	EGH0JM152G20---T
	1800	12.5×16	513	EGH0JM182W16---T
	2200	10×25	580	EGH0JM222G25---T
	2700	10×30	630	EGH0JM272G30---T
	3300	12.5×20	665	EGH0JM332W20---T
	3900	12.5×25	807	EGH0JM392W25---T
	4700	12.5×30	902	EGH0JM472W30---T
	5600	12.5×35	1034	EGH0JM562W35---T
	5600	16×20	1034	EGH0JM562L20---T
	6800	12.5×40	1190	EGH0JM682W40---T
	6800	16×25	1190	EGH0JM682L25---T
	6800	18×20	1190	EGH0JM682M20---T
	8200	16×30	1400	EGH0JM822L30---T
10000	16×35	1600	EGH0JM103L35---T	
10000	18×25	1600	EGH0JM103M25---T	
12000	16×40	1850	EGH0JM123L40---T	
12000	18×30	1850	EGH0JM123M30---T	
15000	18×35	1850	EGH0JM153M35---T	
18000	18×40	2000	EGH0JM183M40---T	
10	100	5×11	91	EGH1AM101D11---T
	220	6.3×11	151	EGH1AM221E11---T
	470	8×12	228	EGH1AM471F12---T
	680	8×16	256	EGH1AM681F16---T
	680	10×13	272	EGH1AM681G13---T
	1000	8×20	400	EGH1AM102F20---T
	1000	10×16	430	EGH1AM102G16---T
	1200	10×20	513	EGH1AM122G20---T
	1500	10×25	580	EGH1AM152G25---T
	1500	12.5×16	580	EGH1AM152W16---T
	2200	10×30	630	EGH1AM222G30---T
	2200	12.5×20	681	EGH1AM222W20---T
	3300	12.5×25	807	EGH1AM332W25---T
	3900	12.5×30	902	EGH1AM392W30---T
	3900	16×20	902	EGH1AM392L20---T
	4700	16×25	1116	EGH1AM472L25---T
	5600	12.5×40	1190	EGH1AM562W40---T
	5600	16×25	1190	EGH1AM562L25---T
	5600	18×20	1190	EGH1AM562M20---T
	6800	16×30	1400	EGH1AM682L30---T
6800	18×25	1400	EGH1AM682M25---T	
8200	16×35	1600	EGH1AM822L35---T	
8200	18×30	1600	EGH1AM822M30---T	
10000	16×40	1850	EGH1AM103L40---T	
10000	18×35	1850	EGH1AM103M35---T	
12000	18×40	2000	EGH1AM123M40---T	
16	56	5×11	100	EGH1CM560D11---T
	120	6.3×11	118	EGH1CM121E11---T
	330	8×12	205	EGH1CM331F12---T
	470	8×16	256	EGH1CM471F16---T
	470	10×13	272	EGH1CM471G13---T
	680	8×20	386	EGH1CM681F20---T
	680	10×16	386	EGH1CM681G16---T
	1000	10×20	513	EGH1CM102G20---T
	1000	12.5×16	513	EGH1CM102W16---T
	1200	10×25	580	EGH1CM122G25---T
	1500	10×30	630	EGH1CM152G30---T
	1500	12.5×20	665	EGH1CM152W20---T
	2200	12.5×25	807	EGH1CM222W25---T

VV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number	
16	2700	12.5×30	902	EGH1CM272W30---T	
	2700	16×20	902	EGH1CM272L20---T	
	3300	12.5×35	1034	EGH1CM332W35---T	
	3900	12.5×40	1190	EGH1CM392W40---T	
	3900	16×25	1190	EGH1CM392L25---T	
	3900	18×20	1190	EGH1CM392M20---T	
	4700	16×30	1400	EGH1CM472L30---T	
	4700	18×25	1400	EGH1CM472M25---T	
	5600	16×35	1600	EGH1CM562L35---T	
	5600	18×30	1600	EGH1CM562M30---T	
	6800	16×40	1850	EGH1CM682L40---T	
	8200	18×35	1850	EGH1CM822M35---T	
	10000	18×40	2000	EGH1CM103M40---T	
	25	47	5×11	124	EGH1EM470D11---T
		100	6.3×11	138	EGH1EM101E11---T
		220	8×12	205	EGH1EM221F12---T
		330	8×16	225	EGH1EM331F16---T
		330	10×13	245	EGH1EM331G13---T
470		8×20	320	EGH1EM471F20---T	
470		10×16	340	EGH1EM471G16---T	
680		10×20	345	EGH1EM681G20---T	
680		12.5×16	345	EGH1EM681W16---T	
820		10×25	450	EGH1EM821G25---T	
1000		10×30	540	EGH1EM102G30---T	
1000		12.5×20	540	EGH1EM102W20---T	
1500		12.5×25	665	EGH1EM152W25---T	
1800		12.5×30	790	EGH1EM182W30---T	
1800		16×20	800	EGH1EM182L20---T	
2200		12.5×35	860	EGH1EM222W35---T	
2200		18×20	880	EGH1EM222M20---T	
2700		12.5×40	960	EGH1EM272W40---T	
2700		16×25	980	EGH1EM272L25---T	
3300		16×30	1190	EGH1EM332L30---T	
3300	18×25	1190	EGH1EM332M25---T		
3900	16×35	1400	EGH1EM392L35---T		
3900	18×30	1400	EGH1EM392M30---T		
4700	16×40	1600	EGH1EM472L40---T		
4700	18×35	1600	EGH1EM472M35---T		
5600	18×40	1850	EGH1EM562M40---T		
35	33	5×11	90	EGH1VM330D11---T	
	56	6.3×11	110	EGH1VM560E11---T	
	150	8×12	180	EGH1VM151F12---T	
	220	8×16	240	EGH1VM221F16---T	
	220	10×13	252	EGH1VM221G13---T	
	270	8×20	280	EGH1VM271F20---T	
	330	10×16	312	EGH1VM331G16---T	
	470	10×20	386	EGH1VM471G20---T	
	470	12.5×16	394	EGH1VM471W16---T	
	560	10×25	450	EGH1VM561G25---T	
	680	10×30	496	EGH1VM681G30---T	
	680	12.5×20	520	EGH1VM681W20---T	
	1000	12.5×25	810	EGH1VM102W25---T	
	1200	12.5×30	860	EGH1VM122W30---T	
	1200	16×25	880	EGH1VM122L25---T	
	1500	12.5×35	880	EGH1VM152W35---T	
	1800	12.5×40	960	EGH1VM182W40---T	
	1800	16×20	900	EGH1VM182L20---T	
	1800	18×20	960	EGH1VM182M20---T	
	2200	16×30	1190	EGH1VM222L30---T	
2200	18×25	1190	EGH1VM222M25---T		
2700	16×35	1400	EGH1VM272L35---T		
2700	18×30	1400	EGH1VM272M30---T		
3300	16×40	1600	EGH1VM332L40---T		
3300	18×35	1600	EGH1VM332M35---T		
3900	18×40	1850	EGH1VM392M40---T		

Radial Type

GH series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA _{RMS} /105°C, 100kHz)	Part Number
50	22	5×11	84	EGH1HM220D11---T
	56	6.3×11	146	EGH1HM560E11---T
	100	8×12	152	EGH1HM101F12---T
	120	8×16	180	EGH1HM121F16---T
	150	10×13	215	EGH1HM151G13---T
	180	8×20	246	EGH1HM181F20---T
	220	10×16	291	EGH1HM221G16---T
	270	10×20	330	EGH1HM271G20---T
	270	12.5×16	330	EGH1HM271W16---T
	330	10×25	386	EGH1HM331G25---T
	470	10×30	460	EGH1HM471G30---T
	470	12.5×20	475	EGH1HM471W20---T
	560	12.5×25	520	EGH1HM561W25---T
	680	12.5×30	665	EGH1HM681W30---T
	820	12.5×35	800	EGH1HM821W35---T
	820	16×20	800	EGH1HM821L20---T
	1000	12.5×40	880	EGH1HM102W40---T
	1000	16×25	880	EGH1HM102L25---T
	1000	18×20	880	EGH1HM102M20---T
	1200	16×30	1190	EGH1HM122L30---T
1200	18×25	1190	EGH1HM122M25---T	
1500	16×35	1400	EGH1HM152L35---T	
1800	16×40	1600	EGH1HM182L40---T	
1800	18×30	1600	EGH1HM182M30---T	
2200	18×35	1800	EGH1HM222M35---T	
2700	18×40	1850	EGH1HM272M40---T	
63	15	5×11	62	EGH1JM150D11---T
	33	6.3×11	126	EGH1JM330E11---T
	56	8×12	198	EGH1JM560F12---T
	82	8×16	246	EGH1JM820F16---T
	82	10×13	252	EGH1JM820G13---T
	120	8×20	300	EGH1JM121F20---T
	120	10×16	310	EGH1JM121G16---T
	180	10×20	386	EGH1JM181G20---T
	180	12.5×16	394	EGH1JM181W16---T
	220	10×25	450	EGH1JM221G25---T
	270	12.5×20	520	EGH1JM271W20---T
	330	12.5×25	665	EGH1JM331W25---T
	470	12.5×30	790	EGH1JM471W30---T
	470	16×20	800	EGH1JM471L20---T
	560	12.5×35	860	EGH1JM561W35---T
	560	16×25	880	EGH1JM561L25---T
	680	12.5×40	960	EGH1JM681W40---T
	680	18×20	980	EGH1JM681M20---T
	820	16×30	1190	EGH1JM821L30---T
	820	18×25	1190	EGH1JM821M25---T
1000	16×35	1400	EGH1JM102L35---T	
1000	18×30	1400	EGH1JM102M30---T	
1200	16×40	1600	EGH1JM122L40---T	
1200	18×35	1600	EGH1JM122M35---T	
1500	18×40	1850	EGH1JM152M40---T	
100	6.8	5×11	62	EGH1KM6R8D11---T
	15	6.3×11	126	EGH1KM150E11---T
	27	8×12	198	EGH1KM270F12---T
	39	8×16	246	EGH1KM390F16---T
	47	10×13	252	EGH1KM470G13---T
	56	8×20	300	EGH1KM560F20---T
	68	10×16	330	EGH1KM680G16---T
	82	10×20	386	EGH1KM820G20---T
	82	12.5×16	394	EGH1KM820W16---T
	100	10×25	450	EGH1KM101G25---T
	120	12.5×20	520	EGH1KM121W20---T
	180	12.5×25	665	EGH1KM181W25---T
	220	16×20	800	EGH1KM221L20---T
	220	12.5×30	790	EGH1KM221W30---T

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA _{RMS} /105°C, 100kHz)	Part Number
100	270	12.5×35	860	EGH1KM271W35---T
	270	16×25	880	EGH1KM271L25---T
	330	18×20	980	EGH1KM331M20---T
	330	12.5×40	960	EGH1KM331W40---T
	390	16×30	1190	EGH1KM391L30---T
	390	18×25	1190	EGH1KM391M25---T
	470	16×35	1400	EGH1KM471L35---T
	470	18×30	1400	EGH1KM471M30---T
	560	16×40	1600	EGH1KM561L40---T
	680	18×35	1600	EGH1KM681M35---T
	820	18×40	1850	EGH1KM821M40---T
	160	4.7	8×9	90
4.7		8×11	100	EGH2CM4R7F11---T
5.6		8×12	115	EGH2CM5R6F12---T
6.8		8×12	125	EGH2CM6R8F12---T
8.2		8×12	135	EGH2CM8R2F12---T
10		8×12	150	EGH2CM100F12---T
12		10×12	180	EGH2CM120G12---T
15		10×16	230	EGH2CM150G16---T
22		10×16	280	EGH2CM220G16---T
33		10×20	350	EGH2CM330G20---T
39		10×20	390	EGH2CM390G20---T
47		10×20	440	EGH2CM470G20---T
47		12.5×16	480	EGH2CM470W16---T
56		12.5×18	600	EGH2CM560W18---T
68		12.5×20	740	EGH2CM680W20---T
82		12.5×20	780	EGH2CM820W20---T
82	16×20	800	EGH2CM820L20---T	
100	12.5×25	850	EGH2CM101W25---T	
100	16×20	860	EGH2CM101L20---T	
150	16×20	1000	EGH2CM151L20---T	
150	16×25	1040	EGH2CM151L25---T	
220	16×25	1560	EGH2CM221L25---T	
220	18×25	1600	EGH2CM221M25---T	
330	18×30	1880	EGH2CM331M30---T	
200	10	10×12	170	EGH2DM100G12---T
	12	10×16	200	EGH2DM120G16---T
	15	10×16	236	EGH2DM150G16---T
	22	10×20	280	EGH2DM220G20---T
	33	10×20	320	EGH2DM330G20---T
	33	12.5×20	340	EGH2DM330W20---T
	39	12.5×20	400	EGH2DM390W20---T
	47	12.5×20	500	EGH2DM470W20---T
	68	12.5×20	620	EGH2DM680W20---T
	68	12.5×25	660	EGH2DM680W25---T
	82	16×20	760	EGH2DM820L20---T
	100	16×20	840	EGH2DM101L20---T
	100	16×25	880	EGH2DM101L25---T
	150	16×25	1160	EGH2DM151L25---T
	150	16×30	1200	EGH2DM151L30---T
	150	18×25	1200	EGH2DM151M25---T
220	18×25	1400	EGH2DM221M25---T	
220	18×30	1440	EGH2DM221M30---T	
330	18×35	1800	EGH2DM331M35---T	
330	18×40	1840	EGH2DM331M40---T	
250	4.7	8×12	116	EGH2EM4R7F12---T
	5.6	10×12	130	EGH2EM5R6G12---T
	6.8	10×12	144	EGH2EM6R8G12---T
	10	10×20	200	EGH2EM100G20---T
	22	10×20	336	EGH2EM220G20---T
	33	12.5×20	420	EGH2EM330W20---T
	39	12.5×20	496	EGH2EM390W20---T
	47	12.5×20	600	EGH2EM470W20---T
	47	12.5×25	640	EGH2EM470W25---T
	68	16×20	800	EGH2EM680L20---T

GH series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA _{RMS} /105°C, 100kHz)	Part Number
250	82	16x20	880	EGH2EM820L20---T
	82	16x30	920	EGH2EM820L30---T
	100	16x25	1020	EGH2EM101L25---T
	100	18x25	1060	EGH2EM101M25---T
	150	18x25	1200	EGH2EM151M25---T
	220	18x31	1440	EGH2EM221M31---T
	220	18x40	1480	EGH2EM221M40---T
350	4.7	8x12	110	EGH2VM4R7F12---T
	5.6	10x12	130	EGH2VM5R6G12---T
	6.8	10x12	160	EGH2VM6R8G12---T
	10	10x16	200	EGH2VM100G16---T
	22	12.5x20	364	EGH2VM220W20---T
	33	16x20	480	EGH2VM330L20---T
	39	16x20	530	EGH2VM390L20---T
	47	16x20	580	EGH2VM470L20---T
	47	16x25	610	EGH2VM470L25---T
	68	16x25	740	EGH2VM680L25---T
	68	18x20	740	EGH2VM680M20---T
	68	18x25	780	EGH2VM680M25---T
	82	18x25	860	EGH2VM820M25---T
	100	18x25	960	EGH2VM101M25---T
	100	18x30	1000	EGH2VM101M30---T
120	18x30	1100	EGH2VM121M30---T	
150	18x35	1200	EGH2VM151M35---T	
400	1	8x12	50	EGH2GM010F12---T
	2.2	8x12	70	EGH2GM2R2F12---T
	3.3	8x12	110	EGH2GM3R3F12---T
	4.7	10x12	130	EGH2GM4R7G12---T
	6.8	10x12	150	EGH2GM6R8G12---T
	10	10x16	200	EGH2GM100G16---T
	15	12.5x16	270	EGH2GM150W16---T
	22	12.5x20	350	EGH2GM220W20---T
	22	12.5x25	370	EGH2GM220W25---T
	33	16x20	510	EGH2GM330L20---T
	39	16x25	580	EGH2GM390L25---T
	47	16x25	660	EGH2GM470L25---T
	47	18x20	660	EGH2GM470M20---T
	47	16x30	700	EGH2GM470L30---T
	56	10x50	780	EGH2GM560G50---T
	68	12.5x40	880	EGH2GM680W40---T
	68	18x25	880	EGH2GM680M25---T
	82	12.5x45	900	EGH2GM820W45---T
	82	18x25	960	EGH2GM820M25---T
	82	18x30	1000	EGH2GM820M30---T
100	12.5x50	1100	EGH2GM101W50---T	
100	18x31	1100	EGH2GM101M31---T	
100	18x35	1140	EGH2GM101M35---T	
120	18x35	1260	EGH2GM121M35---T	
150	18x40	1400	EGH2GM151M40---T	
450	6.8	10x16	150	EGH2WM6R8G16---T
	10	10x20	200	EGH2WM100G20---T
	15	12.5x20	270	EGH2WM150W20---T
	22	16x20	380	EGH2WM220L20---T
	33	10x40	510	EGH2WM330G40---T
	33	16x25	520	EGH2WM330L25---T
	33	18x20	550	EGH2WM330M20---T
	39	10x45	620	EGH2WM390G45---T
	39	18x25	620	EGH2WM390M25---T
	47	12.5x40	700	EGH2WM470W40---T
	47	18x25	700	EGH2WM470M25---T
	56	12.5x40	780	EGH2WM560W40---T
	68	18x30	880	EGH2WM680M30---T
	82	12.5x50	1000	EGH2WM820W50---T
	82	18x35	1000	EGH2WM820M35---T
	100	18x40	1120	EGH2WM101M40---T

※ Specifications subject to change without notice.