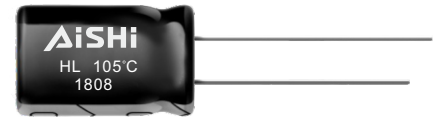


HL series

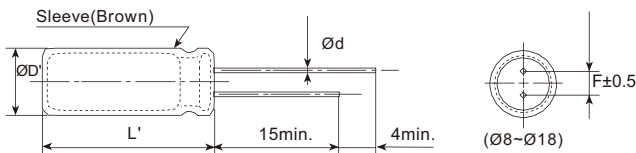
- Long life, downsized, high ripple current; For power supply applications
- Endurance: 8,000~12,000 hours at 105°C
- Compliant to AEC-Q200
- RoHS Compliant



SPECIFICATIONS

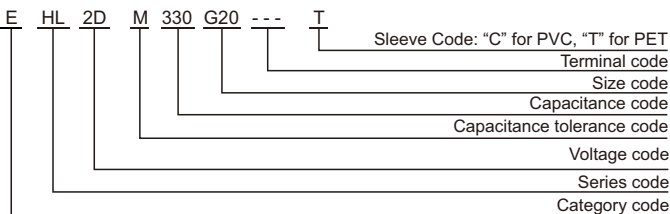
Items	Characteristics		
Category Temperature Range	-40~+105°C(160~450V _{dc})	-25~+105°C(500V _{dc})	
Rated Working Voltage Range	160~500 V _{dc}		
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current		Where, I: Max.leakage current (µA), C: Nominal capacitance (µF), V: Rated voltage (V) (at 20°C)	
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	160 200 250 350 400 450 500	
	Dissipation Factor(Max.)	0.18 0.18 0.18 0.24 0.24 0.24 0.24 (at 20°C, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160 200 250 350 400 450 500	
	Z(-25°C)/Z(+20°C)	3 3 3 6 6 6 6	
	Z(-40°C)/Z(+20°C)	8 8 8 10 10 10 -	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for a specified period of time at 105°C.		
	Capacitance Change	≤±20% of the initial value	Rated Voltage
	Dissipation Factor	≤200% of the initial specified value	Life time
	Leakage Current	≤The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.		
	Capacitance Change	≤±20% of the initial value	
	Dissipation Factor	≤200% of the initial specified value	
	Leakage Current	≤200% of the initial specified value	

DIMENSIONS[mm]



ØD	10	12.5	16	18	22
Ød	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0	7.5	7.5	10
ØD'	ØD+0.5max.				
L'	L+2max.				

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz)	120	1k	10k	100k
<100	1.0	1.75	2.25	2.50
≥100	1.0	1.67	2.05	2.25

HL series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA _{rms} /105°C,120Hz)	Part Number	
160	33	10×16	210	EHL2CM330G16---T	
	47	10×20	300	EHL2CM470G20---T	
	56	10×20	318	EHL2CM560G20---T	
	68	12.5×20	377	EHL2CM680W20---T	
	82	10×25	416	EHL2CM820G25---T	
	82	10×30	448	EHL2CM820G30---T	
	100	12.5×20	575	EHL2CM101W20---T	
	120	10×35	572	EHL2CM121G35---T	
	150	10×45	696	EHL2CM151G45---T	
	150	12.5×25	767	EHL2CM151W25---T	
	180	12.5×30	885	EHL2CM181W30---T	
	180	16×20	858	EHL2CM181L20---T	
	220	12.5×35	1044	EHL2CM221W35---T	
	220	16×25	1022	EHL2CM221L25---T	
	270	12.5×40	1196	EHL2CM271W40---T	
	270	12.5×45	1230	EHL2CM271W45---T	
	330	16×30	1355	EHL2CM331L30---T	
	330	18×25	1292	EHL2CM331M25---T	
	390	16×35	1505	EHL2CM391L35---T	
	470	18×30	1665	EHL2CM471M30---T	
	470	18×35	1722	EHL2CM471M35---T	
	560	16×50	1924	EHL2CM561L50---T	
	560	18×40	1910	EHL2CM561M40---T	
	680	18×45	2135	EHL2CM681M45---T	
	680	18×50	2148	EHL2CM681M50---T	
	200	33	10×20	255	EHL2DM330G20---T
		39	10×20	268	EHL2DM390G20---T
		47	10×20	302	EHL2DM470G20---T
56		10×25	346	EHL2DM560G25---T	
68		10×30	406	EHL2DM680G30---T	
82		12.5×20	522	EHL2DM820W20---T	
100		10×35	520	EHL2DM101G35---T	
100		12.5×25	628	EHL2DM101W25---T	
120		12.5×30	728	EHL2DM121W30---T	
120		16×20	698	EHL2DM121L20---T	
150		10×50	720	EHL2DM151G50---T	
150		18×25	823	EHL2DM151M25---T	
180		16×25	928	EHL2DM181L25---T	
180		18×20	895	EHL2DM181M20---T	
220		12.5×45	1116	EHL2DM221W45---T	
220		18×25	1050	EHL2DM221M25---T	
270		12.5×50	1268	EHL2DM271W50---T	
270		16×35	1252	EHL2DM271L35---T	
330		16×40	1428	EHL2DM331L40---T	
330		18×30	1402	EHL2DM331M30---T	
390		16×45	1575	EHL2DM391L45---T	
390		18×35	1570	EHL2DM391M35---T	
470		18×40	1748	EHL2DM471M40---T	
470		18×45	1775	EHL2DM471M45---T	
560		18×50	1952	EHL2DM561M50---T	
250		27	10×16	172	EHL2EM270G16---T
		33	10×20	242	EHL2EM330G20---T
		47	10×25	316	EHL2EM470G25---T
	47	12.5×20	321	EHL2EM470W20---T	
	56	12.5×20	430	EHL2EM560W20---T	
	68	10×35	432	EHL2EM680G35---T	
	82	10×45	518	EHL2EM820G45---T	
	82	12.5×25	565	EHL2EM820W25---T	
	100	12.5×30	662	EHL2EM101W30---T	
	100	16×20	638	EHL2EM101L20---T	
	120	16×25	758	EHL2EM121L25---T	

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA _{rms} /105°C,120Hz)	Part Number	
250	120	18×20	732	EHL2EM121M20---T	
	150	12.5×40	892	EHL2EM151W40---T	
	150	12.5×45	922	EHL2EM151W45---T	
	180	12.5×50	1040	EHL2EM181W50---T	
	180	16×30	995	EHL2EM181L30---T	
	180	18×25	955	EHL2EM181M25---T	
	220	16×35	1130	EHL2EM221L35---T	
	220	18×30	1138	EHL2EM221M30---T	
	270	16×45	1315	EHL2EM271L45---T	
	270	18×35	1300	EHL2EM271M35---T	
	330	16×50	1480	EHL2EM331L50---T	
	330	18×40	1466	EHL2EM331M40---T	
	390	18×50	1630	EHL2EM391M50---T	
	350	15	10×16	150	EHL2VM150G16---T
		18	10×20	165	EHL2VM180G20---T
		22	10×20	200	EHL2VM220G20---T
		27	10×25	242	EHL2VM270G25---T
		27	10×30	256	EHL2VM270G30---T
33		12.5×20	332	EHL2VM330W20---T	
39		10×35	326	EHL2VM390G35---T	
47		10×40	376	EHL2VM470G40---T	
47		12.5×25	425	EHL2VM470W25---T	
56		10×45	426	EHL2VM560G45---T	
56		12.5×30	498	EHL2VM560W30---T	
56		16×20	476	EHL2VM560L20---T	
68		10×50	486	EHL2VM680G50---T	
68		12.5×35	583	EHL2VM680W35---T	
68		18×20	550	EHL2VM680M20---T	
82		12.5×40	658	EHL2VM820W40---T	
82		16×25	628	EHL2VM820L25---T	
100		12.5×45	752	EHL2VM101W45---T	
100		16×30	744	EHL2VM101L30---T	
100		18×25	710	EHL2VM101M25---T	
120		16×35	832	EHL2VM121L35---T	
150		16×40	964	EHL2VM151L40---T	
150	16×45	978	EHL2VM151L45---T		
150	18×30	944	EHL2VM151M30---T		
180	16×50	1095	EHL2VM181L50---T		
180	18×35	1065	EHL2VM181M35---T		
180	18×40	1086	EHL2VM181M40---T		
220	18×45	1215	EHL2VM221M45---T		
220	18×50	1222	EHL2VM221M50---T		
400	12	10×16	135	EHL2GM120G16---T	
	15	10×20	155	EHL2GM150G20---T	
	18	10×20	180	EHL2GM180G20---T	
	22	10×25	216	EHL2GM220G25---T	
	27	10×30	256	EHL2GM270G30---T	
	27	12.5×20	300	EHL2GM270W20---T	
	33	16×20	336	EHL2GM330L20---T	
	33	12.5×25	320	EHL2GM330W25---T	
	39	12.5×25	390	EHL2GM390W25---T	
	47	12.5×30	456	EHL2GM470W30---T	
	47	16×20	438	EHL2GM470L20---T	
	56	10×50	440	EHL2GM560G50---T	
	56	12.5×35	528	EHL2GM560W35---T	
	56	18×20	502	EHL2GM560M20---T	
	68	12.5×40	600	EHL2GM680W40---T	
	68	16×25	572	EHL2GM680L25---T	
	82	16×30	672	EHL2GM820L30---T	
	82	18×25	644	EHL2GM820M25---T	

HL series

STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦD×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)	Part Number
400	100	16×35	760	EHL2GM101L35---T
	100	16×40	780	EHL2GM101L40---T
	120	16×40	864	EHL2GM121L40---T
	120	18×30	842	EHL2GM121M30---T
	120	18×35	875	EHL2GM121M35---T
	150	16×50	1000	EHL2GM151L50---T
	150	18×40	985	EHL2GM151M40---T
	180	18×45	1098	EHL2GM181M45---T
	220	18×50	1225	EHL2GM221M50---T
450	10	10×16	120	EHL2WM100G16---T
	12	10×20	150	EHL2WM120G20---T
	15	10×25	186	EHL2WM150G25---T
	18	10×30	216	EHL2WM180G30---T
	18	12.5×20	256	EHL2WM180W20---T
	22	16×20	282	EHL2WM220L20---T
	27	10×40	292	EHL2WM270G40---T
	27	10×45	306	EHL2WM270G45---T
	27	12.5×25	342	EHL2WM270W25---T
	33	12.5×30	400	EHL2WM330W30---T
	33	16×20	386	EHL2WM330L20---T
	39	10×50	378	EHL2WM390G50---T
	39	12.5×35	462	EHL2WM390W35---T
	39	18×20	440	EHL2WM390M20---T
	47	12.5×40	528	EHL2WM470W40---T
	47	16×25	500	EHL2WM470L25---T
	56	12.5×45	592	EHL2WM560W45---T
	56	16×30	588	EHL2WM560L30---T
	56	18×25	562	EHL2WM560M25---T
	68	12.5×50	672	EHL2WM680W50---T
	68	16×35	664	EHL2WM680L35---T
	82	16×40	750	EHL2WM820L40---T
	82	18×30	734	EHL2WM820M30---T
	100	16×50	858	EHL2WM101L50---T
	100	18×35	836	EHL2WM101M35---T
	120	18×40	935	EHL2WM121M40---T
	120	22×31	901	EHL2WM121O31---T
150	18×50	1065	EHL2WM151M50---T	
500	6.8	10×20	90	EHL2HM6R8G20---T
	10	10×30	130	EHL2HM100G30---T
	10	12.5×20	125	EHL2HM100W20---T
	12	12.5×20	135	EHL2HM120W20---T
	15	10×35	170	EHL2HM150G35---T
	15	12.5×25	170	EHL2HM150W25---T
	15	16×20	165	EHL2HM150L20---T
	18	10×45	190	EHL2HM180G45---T
	18	12.5×30	190	EHL2HM180W30---T
	22	10×50	230	EHL2HM220G50---T
	22	12.5×35	225	EHL2HM220W35---T
	22	16×20	220	EHL2HM220L20---T
	33	16×25	246	EHL2HM330L25---T
	47	18×30	400	EHL2HM470M30---T

※ Specifications subject to change without notice.