

RH series

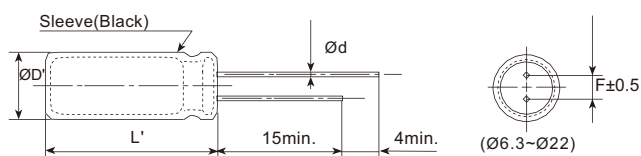
- High frequency, low impedance
- Endurance: 2,000~3,000 hours at 105°C
- RoHS Compliant



SPECIFICATIONS

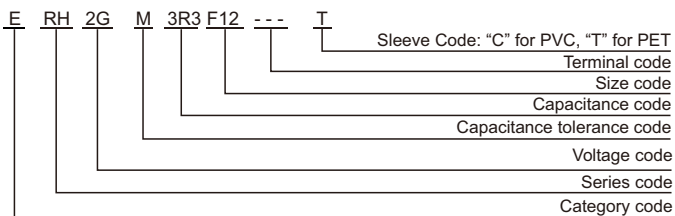
Items	Characteristics							
Category Temperature Range	-40~+105°C(160~450 V _{dc})							
Rated Working Voltage Range	160~450 V _{dc}							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
Leakage Current	I≤0.02CV or 10μA, whichever is greater. Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)							
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	160	200	250	350	400	450	
	Dissipation Factor(Max.)	0.12	0.12	0.12	0.15	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160	200	250	350	400	450	
	Z(-25°C)/Z(+20°C)	3	5	5	5	5	6	
	Z(-40°C)/Z(+20°C)	4	7	7	7	7	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					Case Dia.(mm): Life time (hours)	
	Dissipation Factor	≤200% of the initial specified value					ØD≤8	2,000
	Leakage Current	≤The initial specified value					ØD≥10	3,000
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	6.3	8	10	12.5	13	16	18	22
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
F	2.5	3.5	5.0	5.0	5.0	7.5	7.5	10.0
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
Cap.(μF)				
Cap.<10	0.40	0.70	0.92	1.00
10≤Cap.<100	0.56	0.83	0.95	1.00
100≤Cap.≤1000	0.67	0.87	0.96	1.00

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■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mAmps/105°C,100kHz)	Part Number
160	2.2	6.3×11	80	ERH2CM2R2E11---T
	3.3	6.3×11	103	ERH2CM3R3E11---T
	4.7	8×12	121	ERH2CM4R7F12---T
	10	10×12	150	ERH2CM100G12---T
	22	10×16	228	ERH2CM220G16---T
	33	10×20	293	ERH2CM330G20---T
	47	12.5×20	368	ERH2CM470W20---T
	100	12.5×25	587	ERH2CM101W25---T
220	16×25	767	ERH2CM221L25---T	
200	1	5×11	50	ERH2DM010D11---T
	2.2	6.3×11	77	ERH2DM2R2E11---T
	3.3	6.3×11	103	ERH2DM3R3E11---T
	4.7	8×12	121	ERH2DM4R7F12---T
	10	10×12	152	ERH2DM100G12---T
	22	10×16	228	ERH2DM220G16---T
	22	10×20	238	ERH2DM220G20---T
	33	10×20	319	ERH2DM330G20---T
	33	12.5×20	365	ERH2DM330W20---T
	47	12.5×20	405	ERH2DM470W20---T
	56	12.5×25	476	ERH2DM560W25---T
	68	10×30	484	ERH2DM680G30---T
	82	10×30	574	ERH2DM820G30---T
	100	16×25	774	ERH2DM101L25---T
	120	16×25	801	ERH2DM121L25---T
	150	18×25	908	ERH2DM151M25---T
180	12.5×35	948	ERH2DM181W35---T	
220	18×30	1032	ERH2DM221M30---T	
250	0.47	6.3×11	32	ERH2EMR47E11---T
	1	6.3×11	59	ERH2EM010E11---T
	2.2	6.3×11	77	ERH2EM2R2E11---T
	3.3	8×12	106	ERH2EM3R3F12---T
	4.7	8×12	124	ERH2EM4R7F12---T
	10	10×12	152	ERH2EM100G12---T
	22	10×16	205	ERH2EM220G16---T
	33	12.5×20	371	ERH2EM330W20---T
	47	12.5×20	355	ERH2EM470W20---T
	56	12.5×25	472	ERH2EM560W25---T
	82	16×25	637	ERH2EM820L25---T
	100	16×30	795	ERH2EM101L30---T
	220	18×35	1085	ERH2EM221M35---T
	330	18×45	1182	ERH2EM331M45---T
470	22×46	1290	ERH2EM471O46---T	
350	0.47	6.3×11	32	ERH2VMR47E11---T
	1	6.3×11	59	ERH2VM010E11---T
	2.2	8×12	80	ERH2VM2R2F12---T
	3.3	8×12	109	ERH2VM3R3F12---T
	3.3	10×12	118	ERH2VM3R3G12---T
	4.7	10×16	153	ERH2VM4R7G16---T
	10	10×16	179	ERH2VM100G16---T
	22	12.5×25	316	ERH2VM220W25---T
33	16×25	365	ERH2VM330L25---T	
47	16×30	532	ERH2VM470L30---T	
400	1	6.3×11	41	ERH2GM010E11---T
	2.2	6.3×11	63	ERH2GM2R2E11---T
	3.3	6.3×12	93	ERH2GM3R3E12---T
	3.3	8×12	100	ERH2GM3R3F12---T
	4.7	8×12	117	ERH2GM4R7F12---T

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mAmps/105°C,100kHz)	Part Number
400	10	10×14	166	ERH2GM100G14---T
	10	10×16	177	ERH2GM100G16---T
	22	10×18	233	ERH2GM220G18---T
	27	10×18	280	ERH2GM270G18---T
	33	13×25	510	ERH2GM330K25---T
	33	16×20	487	ERH2GM330L20---T
	39	10×30	422	ERH2GM390G30---T
	47	16×20	652	ERH2GM470L20---T
	47	18×20	640	ERH2GM470M20---T
	56	12.5×35	748	ERH2GM560W35---T
	56	16×25	737	ERH2GM560L25---T
	68	16×30	949	ERH2GM680L30---T
	68	18×25	870	ERH2GM680M25---T
	82	12.5×40	941	ERH2GM820W40---T
	82	18×30	924	ERH2GM820M30---T
	100	12.5×50	956	ERH2GM101W50---T
	100	18×30	935	ERH2GM101M30---T
	120	22×31	962	ERH2GM121O31---T
150	18×35	976	ERH2GM151M35---T	
150	22×31	1010	ERH2GM151O31---T	
450	1	8×12	59	ERH2WM010F12---T
	2.2	8×12	72	ERH2WM2R2F12---T
	3.3	8×12	83	ERH2WM3R3F12---T
	4.7	8×12	81	ERH2WM4R7F12---T
	8.2	10×12	92	ERH2WM8R2G12---T
	10	10×14	98	ERH2WM100G14---T
	10	10×16	101	ERH2WM100G16---T
	18	10×18	145	ERH2WM180G18---T
	22	13×16	221	ERH2WM220K16---T
	22	16×20	545	ERH2WM220L20---T
	33	10×35	509	ERH2WM330G35---T
	33	18×20	498	ERH2WM330M20---T
	39	10×40	554	ERH2WM390G40---T
	47	10×45	703	ERH2WM470G45---T
	47	12.5×30	698	ERH2WM470W30---T
	47	16×25	592	ERH2WM470L25---T
	56	12.5×35	781	ERH2WM560W35---T
	56	18×20	656	ERH2WM560M20---T
	68	12.5×40	830	ERH2WM680W40---T
	68	18×25	704	ERH2WM680M25---T
	82	12.5×45	886	ERH2WM820W45---T
	82	18×30	853	ERH2WM820M30---T
100	18×35	924	ERH2WM101M35---T	
120	18×40	1128	ERH2WM121M40---T	
150	22×40	1354	ERH2WM151O40---T	
220	22×46	1537	ERH2WM221O46---T	

※ Specifications subject to change without notice.