

**WK series**

■ STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Size DxD(mm) | Rated ripple current (mA <sub>rms</sub> /85°C, 120Hz) | Part Number      |                  |
|----------|----------|--------------|---|------------------|------------------|
| 160      | 47       | 12.5x20      | 280   | EWK2CM470W20---T |                  |
|          | 68       | 12.5x20      | 360   | EWK2CM680W20---T |                  |
|          | 100      | 12.5x25      | 470   | EWK2CM101W25---T |                  |
|          | 150      | 16x20        | 520   | EWK2CM151L20---T |                  |
|          | 180      | 16x25        | 600   | EWK2CM181L25---T |                  |
|          | 220      | 16x30        | 780   | EWK2CM221L30---T |                  |
|          | 270      | 18x30        | 860   | EWK2CM271M30---T |                  |
|          | 330      | 18x35        | 1000  | EWK2CM331M35---T |                  |
|          | 390      | 18x35        | 1020  | EWK2CM391M35---T |                  |
|          | 470      | 18x40        | 1220  | EWK2CM471M40---T |                  |
| 200      | 0.47     | 6.3x11       | 10  | EWK2DMR47E11---T |                  |
|          | 1        | 6.3x11       | 15  | EWK2DM010E11---T |                  |
|          | 2.2      | 6.3x11       | 34  | EWK2DM2R2E11---T |                  |
|          | 3.3      | 6.3x11       | 45  | EWK2DM3R3E11---T |                  |
|          | 4.7      | 6.3x11       | 55  | EWK2DM4R7E11---T |                  |
|          | 4.7      | 8x12         | 60  | EWK2DM4R7F12---T |                  |
|          | 10       | 10x12        | 100   | EWK2DM100G12---T |                  |
|          | 22       | 10x20        | 170   | EWK2DM220G20---T |                  |
|          | 33       | 10x20        | 205   | EWK2DM330G20---T |                  |
|          | 47       | 12.5x20      | 270   | EWK2DM470W20---T |                  |
|          | 68       | 12.5x25      | 370   | EWK2DM680W25---T |                  |
|          | 100      | 16x25        | 475   | EWK2DM101L25---T |                  |
|          | 150      | 16x25        | 550   | EWK2DM151L25---T |                  |
|          | 180      | 18x25        | 620   | EWK2DM181M25---T |                  |
|          | 220      | 18x35        | 810   | EWK2DM221M35---T |                  |
| 270      | 18x35    | 870          | EWK2DM271M35---T                                      |                  |                  |
| 330      | 18x35    | 1000         | EWK2DM331M35---T                                      |                  |                  |
| 330      | 18x40    | 1020         | EWK2DM331M40---T                                      |                  |                  |
| 250      | 0.47     | 6.3x11       | 10  | EWK2EMR47E11---T |                  |
|          | 1        | 6.3x11       | 16  | EWK2EM010E11---T |                  |
|          | 2.2      | 6.3x11       | 34  | EWK2EM2R2E11---T |                  |
|          | 3.3      | 6.3x11       | 42  | EWK2EM3R3E11---T |                  |
|          | 3.3      | 8x12         | 46  | EWK2EM3R3F12---T |                  |
|          | 4.7      | 6.3x11       | 50  | EWK2EM4R7E11---T |                  |
|          | 4.7      | 8x12         | 55  | EWK2EM4R7F12---T |                  |
|          | 10       | 10x12        | 100   | EWK2EM100G12---T |                  |
|          | 10       | 10x16        | 105   | EWK2EM100G16---T |                  |
|          | 22       | 10x20        | 170   | EWK2EM220G20---T |                  |
|          | 33       | 10x20        | 200   | EWK2EM330G20---T |                  |
|          | 33       | 12.5x20      | 230   | EWK2EM330W20---T |                  |
|          | 47       | 12.5x20      | 270   | EWK2EM470W20---T |                  |
|          | 47       | 12.5x25      | 295   | EWK2EM470W25---T |                  |
|          | 68       | 16x25        | 382   | EWK2EM680L25---T |                  |
| 100      | 16x25    | 450          | EWK2EM101L25---T                                      |                  |                  |
| 100      | 16x30    | 515          | EWK2EM101L30---T                                      |                  |                  |
| 120      | 16x30    | 530          | EWK2EM121L30---T                                      |                  |                  |
| 150      | 16x30    | 570          | EWK2EM151L30---T                                      |                  |                  |
| 180      | 18x30    | 620          | EWK2EM181M30---T                                      |                  |                  |
| 350      | 0.47     | 6.3x11       | 15  | EWK2VMR47E11---T |                  |
|          | 1        | 6.3x11       | 22  | EWK2VM010E11---T |                  |
|          | 2.2      | 8x12         | 38  | EWK2VM2R2F12---T |                  |
|          | 3.3      | 8x12         | 46  | EWK2VM3R3F12---T |                  |
|          | 4.7      | 10x12        | 65  | EWK2VM4R7G12---T |                  |
|          | 10       | 10x12        | 90  | EWK2VM100G12---T |                  |
|          | 10       | 10x16        | 100   | EWK2VM100G16---T |                  |
|          | 10       | 10x20        | 120   | EWK2VM100G20---T |                  |
|          | 22       | 12.5x20      | 185   | EWK2VM220W20---T |                  |
|          | 33       | 16x25        | 275   | EWK2VM330L25---T |                  |
|          | 47       | 16x25        | 325   | EWK2VM470L25---T |                  |
|          | 68       | 16x25        | 405   | EWK2VM680L25---T |                  |
|          | 100      | 18x30        | 530   | EWK2VM101M30---T |                  |
|          | 400      | 1            | 6.3x11  | 22               | EWK2GM010E11---T |
|          |          | 2.2          | 8x12  | 38               | EWK2GM2R2F12---T |
| 3.3      |          | 10x12        | 54  | EWK2GM3R3G12---T |                  |
| 4.7      |          | 10x12        | 60  | EWK2GM4R7G12---T |                  |
| 4.7      |          | 10x16        | 75  | EWK2GM4R7G16---T |                  |

| WV (Vdc) | Cap (μF) | Size DxD(mm) | Rated ripple current (mA <sub>rms</sub> /85°C, 120Hz) | Part Number      |
|----------|----------|--------------|---|------------------|
| 400      | 10       | 10x16        | 100   | EWK2GM100G16---T |
|          | 10       | 10x20        | 120   | EWK2GM100G20---T |
|          | 22       | 12.5x25      | 205   | EWK2GM220W25---T |
|          | 33       | 16x25        | 275   | EWK2GM330L25---T |
|          | 47       | 16x25        | 325   | EWK2GM470L25---T |
|          | 47       | 16x30        | 350   | EWK2GM470L30---T |
|          | 56       | 16x30        | 385   | EWK2GM560L30---T |
|          | 68       | 18x25        | 420   | EWK2GM680M25---T |
|          | 82       | 18x30        | 475   | EWK2GM820M30---T |
|          | 100      | 18x35        | 545   | EWK2GM101M35---T |
| 450      | 1        | 8x12         | 16  | EWK2WM010F12---T |
|          | 2.2      | 8x12         | 32  | EWK2WM2R2F12---T |
|          | 2.2      | 10x12        | 35  | EWK2WM2R2G12---T |
|          | 3.3      | 10x12        | 40  | EWK2WM3R3G12---T |
|          | 3.3      | 10x16        | 44  | EWK2WM3R3G16---T |
|          | 4.7      | 10x12        | 50  | EWK2WM4R7G12---T |
|          | 4.7      | 10x16        | 58  | EWK2WM4R7G16---T |
|          | 4.7      | 10x20        | 65  | EWK2WM4R7G20---T |
|          | 10       | 10x20        | 80  | EWK2WM100G20---T |
|          | 10       | 12.5x20      | 92  | EWK2WM100W20---T |
|          | 22       | 12.5x25      | 150   | EWK2WM220W25---T |
|          | 22       | 16x25        | 165   | EWK2WM220L25---T |
|          | 33       | 16x30        | 215   | EWK2WM330L30---T |
|          | 47       | 16x30        | 260   | EWK2WM470L30---T |
|          | 47       | 16x35        | 280   | EWK2WM470L35---T |
| 68       | 18x30    | 370          | EWK2WM680M30---T                                      |                  |
| 82       | 18x35    | 390          | EWK2WM820M35---T                                      |                  |
| 100      | 18x40    | 420          | EWK2WM101M40---T                                      |                  |

Specifications subject to change without notice.

**WH series**

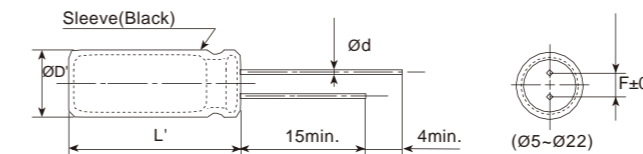
- Standard series for general purpose
- Wide temperature range from -40 °C to +105 °C
- Endurance: 2,000 hours at 105 °C
- RoHS Compliant



■ SPECIFICATIONS

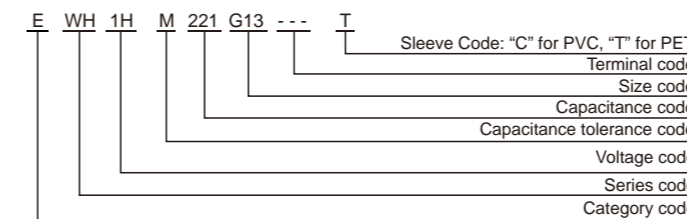
| Items   | Characteristics   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|---|---|--|-------------------------------------|----------|--|--|--------------------------------------|--|--|-----------------|--|--|
| Category Temperature Range  | -40~+105 °C (6.3~100 V <sub>dc</sub> )  |  |                                     |          |  |  | -25~+105°C(160~500 V <sub>dc</sub> ) |  |  |                 |  |  |
| Rated Voltage Range   | 6.3~500 V <sub>dc</sub>   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
| Capacitance Tolerance   | ±20%(M) (at 20°C, 120Hz)  |  |                                     |          |  |  |                                      |  |  |                 |  |  |
| Leakage Current   | 6.3~100 V <sub>dc</sub>   |  |                                     |          |  |  | 160~500 V <sub>dc</sub>              |  |  |                 |  |  |
|   | I 0.03CV or 4μA (at 1 minute)   |  |                                     | CV       |  |  | After 1 minute                       |  |  | After 5 minutes |  |  |
|   | I 0.01CV or 3μA (at 2 minutes)  |  |                                     | CV 1,000 |  |  | I 0.1CV+40μA                         |  |  | I 0.03CV+15μA   |  |  |
| I: leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V) (at 20°C) |   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
| Dissipation Factor (tan δ)  | Rated Voltage(V <sub>dc</sub> )   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | Dissipation Factor (Max.)   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | 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 <sub>dc</sub> )   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | Z(-25°C)/Z(+20°C)   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | Z(-40°C)/Z(+20°C)   |  |                                     |          |  |  |                                      |  |  |                 |  |  |
| 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 2,000 hours at 105°C. |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | Capacitance Change  |  | ±20% of the initial value           |          |  |  |                                      |  |  |                 |  |  |
|   | Dissipation Factor  |  | 200% of the initial specified value |          |  |  |                                      |  |  |                 |  |  |
|   | Leakage Current   |  | The initial specified value         |          |  |  |                                      |  |  |                 |  |  |
| 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 1,000 hours.                         |  |                                     |          |  |  |                                      |  |  |                 |  |  |
|   | 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  | 5          | 6.3 | 8   | 10  | 12.5/13 | 16/18 | 22   |
|-----|------------|-----|-----|-----|---------|-------|------|
| ød  | 0.5        | 0.5 | 0.5 | 0.6 | 0.6     | 0.8   | 0.8  |
| F   | 2.0        | 2.5 | 3.5 | 5.0 | 5.0     | 7.5   | 10.0 |
| øD' | øD+0.5max. |     |     |     |         |       |      |
| L'  | L+2max.    |     |     |     |         |       |      |

■ PART NUMBERING SYSTEM



■ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

| Cap.(μF)      | Freq.(Hz) |      |      |      |      |      |
|---------------|-----------|------|------|------|------|------|
|               | 50        | 120  | 300  | 1k   | 10k  | 100k |
| Cap.<10       | 0.65      | 1.00 | 1.35 | 1.75 | 2.30 | 2.50 |
| 10 Cap.<100   | 0.75      | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 |
| 100 Cap.<1000 | 0.80      | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 |
| Cap. 1000     | 0.85      | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 |

Radial Type

**WH series**

■ STANDARD RATINGS

| WV (Vdc) | Cap (µF) | Size DxD(mm) | Rated ripple current (mA <sub>RMS</sub> /105°C, 120Hz) | Part Number      |
|----------|----------|--------------|--|------------------|
| 6.3      | 33       | 5x11         | 54   | EWHOJM330D11---T |
|          | 47       | 5x11         | 64   | EWHOJM470D11---T |
|          | 100      | 5x11         | 94   | EWHOJM101D11---T |
|          | 220      | 5x11         | 140  | EWHOJM221D11---T |
|          | 330      | 6.3x11       | 190  | EWHOJM331E11---T |
|          | 470      | 6.3x11       | 230  | EWHOJM471E11---T |
|          | 1000     | 8x12         | 380  | EWHOJM102F12---T |
|          | 2200     | 10x20        | 710  | EWHOJM222G20---T |
|          | 3300     | 10x20        | 840  | EWHOJM332G20---T |
|          | 4700     | 12.5x20      | 1090   | EWHOJM472W20---T |
|          | 6800     | 12.5x25      | 1350   | EWHOJM682W25---T |
|          | 10000    | 16x25        | 1650   | EWHOJM103L25---T |
|          | 15000    | 16x35        | 2010   | EWHOJM153L35---T |
|          | 22000    | 18x40        | 2350   | EWHOJM223M40---T |
| 10       | 22       | 5x11         | 46   | EWH1AM220D11---T |
|          | 33       | 5x11         | 57   | EWH1AM330D11---T |
|          | 47       | 5x11         | 68   | EWH1AM470D11---T |
|          | 100      | 5x11         | 100  | EWH1AM101D11---T |
|          | 220      | 6.3x11       | 170  | EWH1AM221E11---T |
|          | 330      | 6.3x11       | 200  | EWH1AM331E11---T |
|          | 470      | 8x11         | 250  | EWH1AM471F11---T |
|          | 1000     | 10x13        | 460  | EWH1AM102G13---T |
|          | 2200     | 10x20        | 760  | EWH1AM222G20---T |
|          | 3300     | 12.5x20      | 1000   | EWH1AM332W20---T |
|          | 4700     | 12.5x25      | 1260   | EWH1AM472W25---T |
|          | 6800     | 16x25        | 1570   | EWH1AM682L25---T |
|          | 10000    | 16x35        | 1890   | EWH1AM103L35---T |
|          | 15000    | 18x35        | 2180   | EWH1AM153M35---T |
| 16       | 10       | 5x11         | 34   | EWH1CM100D11---T |
|          | 22       | 5x11         | 51   | EWH1CM220D11---T |
|          | 33       | 5x11         | 63   | EWH1CM330D11---T |
|          | 47       | 5x11         | 75   | EWH1CM470D11---T |
|          | 100      | 5x11         | 110  | EWH1CM101D11---T |
|          | 220      | 6.3x11       | 180  | EWH1CM221E11---T |
|          | 330      | 8x11         | 260  | EWH1CM331F11---T |
|          | 470      | 8x12         | 310  | EWH1CM471F12---T |
|          | 1000     | 10x16        | 560  | EWH1CM102G16---T |
|          | 2200     | 12.5x20      | 920  | EWH1CM222W20---T |
|          | 3300     | 12.5x25      | 1170   | EWH1CM332W25---T |
|          | 4700     | 16x25        | 1480   | EWH1CM472L25---T |
|          | 6800     | 16x30        | 1780   | EWH1CM682L30---T |
|          | 10000    | 18x35        | 2060   | EWH1CM103M35---T |
| 25       | 4.7      | 5x11         | 25   | EWH1EM4R7D11---T |
|          | 10       | 5x11         | 36   | EWH1EM100D11---T |
|          | 22       | 5x11         | 54   | EWH1EM220D11---T |
|          | 33       | 5x11         | 67   | EWH1EM330D11---T |
|          | 47       | 5x11         | 80   | EWH1EM470D11---T |
|          | 100      | 6.3x11       | 130  | EWH1EM101E11---T |
|          | 220      | 8x11         | 230  | EWH1EM221F11---T |
|          | 330      | 8x12         | 310  | EWH1EM331F12---T |
|          | 470      | 10x13        | 380  | EWH1EM471G13---T |
|          | 1000     | 10x20        | 680  | EWH1EM102G20---T |
|          | 2200     | 12.5x25      | 1090   | EWH1EM222W25---T |
|          | 3300     | 16x25        | 1400   | EWH1EM332L25---T |
|          | 4700     | 16x30        | 1710   | EWH1EM472L30---T |
|          | 6800     | 18x35        | 2040   | EWH1EM682M35---T |
| 35       | 4.7      | 5x11         | 28   | EWH1VM4R7D11---T |
|          | 10       | 5x11         | 41   | EWH1VM100D11---T |
|          | 22       | 5x11         | 61   | EWH1VM220D11---T |
|          | 33       | 5x11         | 75   | EWH1VM330D11---T |
|          | 47       | 5x11         | 90   | EWH1VM470D11---T |
|          | 100      | 6.3x11       | 150  | EWH1VM101E11---T |
|          | 220      | 8x12         | 270  | EWH1VM221F12---T |
|          | 330      | 10x13        | 350  | EWH1VM331G13---T |
|          | 470      | 10x16        | 460  | EWH1VM471G16---T |
|          | 1000     | 12.5x20      | 810  | EWH1VM102W20---T |
|          | 2200     | 16x25        | 1260   | EWH1VM222L25---T |
|          | 3300     | 16x35        | 1610   | EWH1VM332L35---T |
|          | 4700     | 18x35        | 1910   | EWH1VM472M35---T |

| WV (Vdc) | Cap (µF) | Size DxD(mm) | Rated ripple current (mA <sub>RMS</sub> /105°C, 120Hz) | Part Number      |                  |
|----------|----------|--------------|--|------------------|------------------|
| 50       | 0.1      | 5x11         | 1.3  | EWH1HMR10D11---T |                  |
|          | 0.22     | 5x11         | 2.9  | EWH1HMR22D11---T |                  |
|          | 0.33     | 5x11         | 4.3  | EWH1HMR33D11---T |                  |
|          | 0.47     | 5x11         | 6.2  | EWH1HMR47D11---T |                  |
|          | 1        | 5x11         | 13   | EWH1HM010D11---T |                  |
|          | 2.2      | 5x11         | 20   | EWH1HM2R2D11---T |                  |
|          | 3.3      | 5x11         | 25   | EWH1HM3R3D11---T |                  |
|          | 4.7      | 5x11         | 30   | EWH1HM4R7D11---T |                  |
|          | 10       | 5x11         | 40   | EWH1HM100D11---T |                  |
|          | 22       | 5x11         | 65   | EWH1HM220D11---T |                  |
|          | 33       | 6.3x11       | 90   | EWH1HM330E11---T |                  |
|          | 47       | 6.3x11       | 110  | EWH1HM470E11---T |                  |
|          | 100      | 8x11         | 180  | EWH1HM101F11---T |                  |
|          | 220      | 10x13        | 300  | EWH1HM221G13---T |                  |
| 63       | 10       | 5x11         | 46   | EWH1JM100D11---T |                  |
|          | 22       | 5x11         | 71   | EWH1JM220D11---T |                  |
|          | 33       | 6.3x11       | 100  | EWH1JM330E11---T |                  |
|          | 47       | 6.3x11       | 120  | EWH1JM470E11---T |                  |
|          | 100      | 10x13        | 215  | EWH1JM101G13---T |                  |
|          | 220      | 10x16        | 335  | EWH1JM221G16---T |                  |
|          | 330      | 10x20        | 510  | EWH1JM331G20---T |                  |
|          | 470      | 12.5x20      | 640  | EWH1JM471W20---T |                  |
|          | 1000     | 16x25        | 930  | EWH1JM102L25---T |                  |
|          | 100      | 0.1          | 5x11   | 1.5              | EWH1KMR10D11---T |
|          |          | 0.22         | 5x11   | 3.4              | EWH1KMR22D11---T |
|          |          | 0.33         | 5x11   | 5                | EWH1KMR33D11---T |
|          |          | 0.47         | 5x11   | 7.1              | EWH1KMR47D11---T |
|          |          | 1            | 5x11   | 15               | EWH1KM010D11---T |
| 2.2      |          | 5x11         | 21   | EWH1KM2R2D11---T |                  |
| 3.3      |          | 5x11         | 29   | EWH1KM3R3D11---T |                  |
| 4.7      |          | 5x11         | 32   | EWH1KM4R7D11---T |                  |
| 10       |          | 6.3x11       | 54   | EWH1KM100E11---T |                  |
| 22       |          | 8x11         | 93   | EWH1KM220F11---T |                  |
| 33       |          | 8x12         | 130  | EWH1KM330F12---T |                  |
| 47       |          | 10x13        | 165  | EWH1KM470G13---T |                  |
| 100      |          | 10x20        | 265  | EWH1KM101G20---T |                  |
| 220      |          | 12.5x25      | 440  | EWH1KM221W25---T |                  |
| 160      | 330      | 16x25        | 540  | EWH1KM331L25---T |                  |
|          | 470      | 16x30        | 715  | EWH1KM471L30---T |                  |
|          | 1000     | 18x40        | 985  | EWH1KM102M40---T |                  |
|          | 3.3      | 6.3x9        | 28   | EWH2CM3R3E09---T |                  |
|          | 4.7      | 6.3x9        | 34   | EWH2CM4R7E09---T |                  |
|          | 10       | 6.3x12       | 60   | EWH2CM100E12---T |                  |
|          | 10       | 8x9          | 60   | EWH2CM100F09---T |                  |
|          | 22       | 8x12         | 88   | EWH2CM220F12---T |                  |
|          | 22       | 10x12        | 98   | EWH2CM220G12---T |                  |
|          | 33       | 10x12        | 140  | EWH2CM330G12---T |                  |
|          | 33       | 10x16        | 158  | EWH2CM330G16---T |                  |
|          | 47       | 10x14        | 142  | EWH2CM470G14---T |                  |
|          | 47       | 10x20        | 182  | EWH2CM470G20---T |                  |
|          | 68       | 10x20        | 240  | EWH2CM680G20---T |                  |
| 100      | 12.5x20  | 300          | EWH2CM101W20---T                                       |                  |                  |
| 100      | 16x20    | 316          | EWH2CM101L20---T                                       |                  |                  |
| 220      | 16x25    | 530          | EWH2CM221L25---T                                       |                  |                  |
| 330      | 18x25    | 600          | EWH2CM331M25---T                                       |                  |                  |
| 470      | 18x35    | 820          | EWH2CM471M35---T                                       |                  |                  |
| 200      | 1        | 6.3x7        | 12   | EWH2DM010E07---T |                  |
|          | 2.2      | 6.3x7        | 18   | EWH2DM2R2E07---T |                  |
|          | 3.3      | 6.3x9        | 28   | EWH2DM3R3E09---T |                  |
|          | 4.7      | 6.3x9        | 40   | EWH2DM4R7E09---T |                  |
|          | 10       | 8x12         | 78   | EWH2DM100F12---T |                  |
|          | 22       | 8x16         | 110  | EWH2DM220F16---T |                  |
|          | 22       | 10x12        | 110  | EWH2DM220G12---T |                  |
|          | 33       | 10x16        | 166  | EWH2DM330G16---T |                  |

**WH series**

■ STANDARD RATINGS

| WV (Vdc) | Cap (µF) | Size DxD(mm) | Rated ripple current (mA <sub>RMS</sub> /105°C, 120Hz) | Part Number      |
|----------|----------|--------------|--|------------------|
| 200      | 33       | 10x20        | 185  | EWH2DM330G20---T |
|          | 47       | 10x20        | 200  | EWH2DM470G20---T |
|          | 68       | 12.5x20      | 290  | EWH2DM680W20---T |
|          | 82       | 12.5x20      | 300  | EWH2DM820W20---T |
|          | 100      | 13x20        | 305  | EWH2DM101K20---T |
|          | 100      | 16x20        | 325  | EWH2DM101L20---T |
|          | 150      | 16x25        | 446  | EWH2DM151L25---T |
|          | 180      | 16x25        | 530  | EWH2DM181L25---T |
|          | 220      | 18x25        | 620  | EWH2DM221M25---T |
|          | 330      | 18x30        | 720  | EWH2DM331M30---T |
|          | 470      | 18x40        | 840  | EWH2DM471M40---T |
|          | 2.2      | 6.3x9        | 21   | EWH2EM2R2E09---T |
|          | 3.3      | 6.3x9        | 30   | EWH2EM3R3E09---T |
|          | 4.7      | 6.3x12       | 38   | EWH2EM4R7E12---T |
| 4.7      | 8x9      | 45           | EWH2EM4R7F09---T                                       |                  |
| 250      | 10       | 8x12         | 70   | EWH2EM100F12---T |
|          | 10       | 10x12        | 75   | EWH2EM100G12---T |
|          | 22       | 8x16         | 100  | EWH2EM220F16---T |
|          | 22       | 10x16        | 116  | EWH2EM220G16---T |
|          | 33       | 10x20        | 150  | EWH2EM330G20---T |
|          | 33       | 12.5x16      | 165  | EWH2EM330W16---T |
|          | 47       | 12.5x20      | 232  | EWH2EM470W20---T |
|          | 100      | 16x25        | 370  | EWH2EM101L25---T |
|          | 150      | 18x25        | 455  | EWH2EM151M25---T |
|          | 220      | 18x30        | 600  | EWH2EM221M30---T |
|          | 330      | 18x35        | 705  | EWH2EM331M35---T |
|          | 1        | 6.3x9        | 13   | EWH2VM010E09---T |
|          | 2.2      | 6.3x9        | 23   | EWH2VM2R2E09---T |
|          | 3.3      | 8x9          | 31   | EWH2VM3R3F09---T |
| 4.7      | 8x9      | 45           | EWH2VM4R7F09---T                                       |                  |
| 350      | 10       | 10x12        | 68   | EWH2VM100G12---T |
|          | 22       | 10x20        | 135  | EWH2VM220G20---T |
|          | 33       | 12.5x20      | 184  | EWH2VM330W20---T |
|          | 47       | 16x20        | 225  | EWH2VM470L20---T |
|          | 68       | 16x25        | 336  | EWH2VM680L25---T |
|          | 100      | 18x30        | 398  | EWH2VM101M30---T |
|          | 1        | 6.3x9        | 14   | EWH2GM010E09---T |
|          | 2.2      | 6.3x9        | 25   | EWH2GM2R2E09---T |
|          | 2.2      | 8x9          | 30   | EWH2GM2R2F09---T |
|          | 3.3      | 6.3x12       | 33   | EWH2GM3R3E12---T |
|          | 3.3      | 8x9          | 34   | EWH2GM3R3F09---T |
|          | 4.7      | 8x9          | 45   | EWH2GM4R7F09---T |
|          | 4.7      | 8x12         | 48   | EWH2GM4R7F12---T |
|          | 10       | 8x16         | 92   | EWH2GM100F16---T |
| 10       | 10x12    | 92           | EWH2GM100G12---T                                       |                  |
| 400      | 22       | 10x20        | 160  | EWH2GM220G20---T |
|          | 33       | 16x20        | 258  | EWH2GM330L20---T |
|          | 47       | 16x20        | 290  | EWH2GM470L20---T |
|          | 68       | 16x25        | 420  | EWH2GM680L25---T |
|          | 68       | 18x20        | 420  | EWH2GM680M20---T |
|          | 82       | 18x25        | 474  | EWH2GM820M25---T |
|          | 100      | 18x30        | 532  | EWH2GM101M30---T |
|          | 120      | 18x35        | 588  | EWH2GM121M35---T |
|          | 150      | 18x35        | 610  | EWH2GM151M35---T |
|          | 1        | 6.3x9        | 14   | EWH2WM010E09---T |
|          | 1        | 6.3x12       | 16   | EWH2WM010E12---T |
|          | 2.2      | 8x9          | 22   | EWH2WM2R2F09---T |
|          | 2.2      | 8x12         | 25   | EWH2WM2R2F12---T |
|          | 3.3      | 8x12         | 32   | EWH2WM3R3F12---T |
| 4.7      | 10x12    | 48           | EWH2WM4R7G12---T                                       |                  |
| 10       | 10x16    | 85           | EWH2WM100G16---T                                       |                  |
| 450      | 10       | 10x20        | 90   | EWH2WM100G20---T |
|          | 22       | 12.5x20      | 150  | EWH2WM220W20---T |
|          | 22       | 16x20        | 185  | EWH2WM220L20---T |
|          | 33       | 16x20        | 200  | EWH2WM330L20---T |
|          | 47       | 16x25        | 335  | EWH2WM470L25---T |
|          | 68       | 18x25        | 400  | EWH2WM680M25---T |
|          | 82       | 18x30        | 472  | EWH2WM820M30---T |

Specifications subject to change without notice.

| WV (Vdc) | Cap (µF) | Size DxD(mm) | Rated ripple current (mA <sub>RMS</sub> /105°C, 120Hz) | Part Number      |
|----------|----------|--------------|--|------------------|
| 450      | 100      | 18x35        | 530  | EWH2WM101M35---T |
|          | 120      | 18x40        | 582  | EWH2WM121M40---T |
|          | 150      | 18x45        | 610  | EWH2WM151M45---T |
|          | 4.7      | 10x16        | 50   | EWH2HM4R7G16---T |
| 500      | 10       | 12.5x20      | 115  | EWH2HM100W20---T |
|          | 15       | 12.5x25      | 140  | EWH2HM150W25---T |
|          | 22       | 16x25        | 185  | EWH2HM220L25---T |
|          | 33       | 18x25        | 215  | EWH2HM330M25---T |
|          | 47       | 18x35        | 345  | EWH2HM470M35---T |
|          | 68       | 18x35        | 390  | EWH2HM680M35---T |
|          | 82       | 18x40        | 490  | EWH2HM820M40---T |
|          | 100      | 22x35        | 535  | EWH2HM101O35---T |
|          | 120      | 22x40        | 550  | EWH2HM121O40---T |