



Molding Power Choke - HMC Series

FEATURES

- * Magnetic metal powder inductor.
- * Compact design
- * High current, low DCR, high efficiency
- * Very low acoustic noise and very low leakage flux noise
- * High reliability
- * 100% Lead(Pb)-Free and RoHS compliant



ORDERING CODE(标志示例)

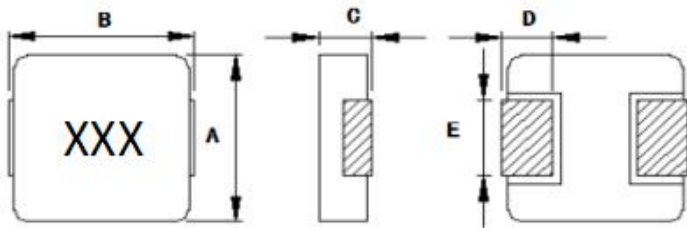
HMC □□□□ - □□□□ □

(1) (2) (3) (4)

- (1) HMC 向华料号 Part Number
- (2) 尺寸 Dimensions
- (3) 电感量 Inductance
- (4) 电感量公差 Inductance Tolerance

Shape and Dimensions

Fig1



Recommended Pattern

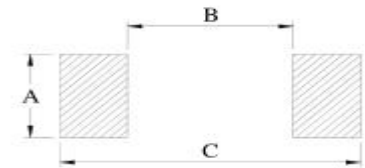
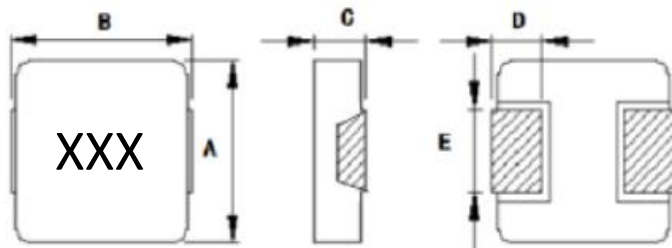


Fig2



Dimensions in mm

| TYPE | A | B | C | D | E | A | B | C |
|---------|----------|-----------|--------|---------|---------|------|------|------|
| HMC0315 | 3.2±0.2 | 3.6±0.2 | 1.5max | 0.6±0.5 | 1.0±0.3 | 1.20 | 1.00 | 4.00 |
| HMC0302 | 3.2±0.2 | 3.6±0.2 | 2.0max | 0.6±0.3 | 1.0±0.3 | 1.20 | 1.00 | 4.00 |
| HMC0412 | 4.06±0.3 | 4.49±0.40 | 1.2max | 1.1±0.3 | 2.0±0.3 | 2.30 | 2.20 | 5.20 |
| HMC0415 | 4.06±0.3 | 4.49±0.40 | 1.5max | 1.1±0.3 | 1.5±0.3 | 2.30 | 2.20 | 5.20 |



Molding Power Choke - HMC Series

Dimensions in mm

| TYPE | A | B | C | D | E | A | B | C |
|---------|----------|-----------|--------|---------|----------|-------|-------|-------|
| HMC0402 | 4.06±0.3 | 4.49±0.40 | 2.0max | 1.1±0.3 | 1.5±0.3 | 2.30 | 2.20 | 5.20 |
| HMC0403 | 4.06±0.3 | 4.49±0.40 | 3.0max | 1.1±0.3 | 1.5±0.3 | 2.30 | 2.20 | 5.20 |
| HMC0515 | 5.3max | 5.6±0.3 | 1.5max | 1.2±0.3 | 2.0±0.3 | 2.50 | 3.00 | 7.00 |
| HMC0518 | 5.3max | 5.6±0.3 | 1.8max | 1.2±0.3 | 2.0±0.3 | 2.50 | 3.00 | 7.00 |
| HMC0502 | 5.3max | 5.6±0.3 | 2.0max | 1.2±0.3 | 2.0±0.3 | 2.50 | 3.00 | 7.00 |
| HMC0503 | 5.3max | 5.6±0.3 | 3.0max | 1.2±0.3 | 2.0±0.3 | 2.50 | 3.00 | 7.00 |
| HMC0615 | 6.6±0.3 | 7.6max | 1.5max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0618 | 6.6±0.3 | 7.6max | 1.8max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0602 | 6.6±0.3 | 7.6max | 2.0max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0624 | 6.6±0.3 | 7.6max | 2.4max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0603 | 6.6±0.3 | 7.6max | 3.0max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0604 | 6.6±0.3 | 7.6max | 4.0max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0605 | 6.6±0.3 | 7.6max | 5.0max | 1.6±0.5 | 3.0±0.3 | 3.50 | 2.50 | 8.40 |
| HMC0705 | 7.8±0.5 | 7.6±0.5 | 5.0max | 5.0±0.3 | 1.6±0.5 | 5.50 | 3.50 | 8.70 |
| HMC0803 | 8.0±0.5 | 9.0±0.5 | 3.0max | 3.0±0.5 | 1.8±0.5 | 3.50 | 3.50 | 10.40 |
| HMC0804 | 8.0±0.5 | 9.0±0.5 | 4.0max | 3.0±0.5 | 1.8±0.5 | 3.50 | 3.50 | 10.40 |
| HMC1003 | 10.5max | 11.8max | 3.0max | 2.0±0.5 | 3.0±0.3 | 4.10 | 5.40 | 13.60 |
| HMC1004 | 10.5max | 11.8max | 4.0max | 2.0±0.5 | 3.0±0.3 | 4.10 | 5.40 | 13.60 |
| HMC1005 | 10.0±0.3 | 11.0±0.5 | 5.0max | 2.0±0.5 | 3.0±0.3 | 4.10 | 5.40 | 13.60 |
| HMC1235 | 12.8±0.5 | 13.5±1.0 | 3.5max | 2.5±0.5 | 3.5±0.5 | 5.00 | 6.00 | 16.00 |
| HMC1205 | 12.8±0.5 | 13.5±1.0 | 5.0max | 2.5±0.5 | 3.5±0.5 | 5.00 | 6.00 | 16.00 |
| HMC1265 | 12.8±0.5 | 13.5±1.0 | 6.5max | 2.5±0.5 | 3.5±0.5 | 5.00 | 6.00 | 16.00 |
| HMC1704 | 17.0±0.5 | 18.0±1.0 | 4.0max | 3.3±0.5 | 12.0±0.5 | 13.50 | 11.00 | 19.50 |
| HMC1707 | 17.0±0.5 | 18.0±1.0 | 7.0max | 3.3±0.5 | 12.0±0.5 | 13.50 | 11.00 | 19.50 |



Molding Power Choke - HMC0315 Series

HMC0315 series Electrical Characteristics

| Part No. | Inductance (μ H) | Tolerance (\pm %) | Test Freq. | RDC(m Ω) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------------|-------------------------|------------|-------------------------------|----------------|----------------|-------|---------|
| HMC0315-R22M | 0.22 | 20 | 100KHz,1V | 10.2(12.0) | 11.0 | 9.0 | Fig1 | R22 |
| HMC0315-R33M | 0.33 | 20 | 100KHz,1V | 16.6(20.5) | 8.0 | 6.5 | Fig1 | R33 |
| HMC0315-R47M | 0.47 | 20 | 100KHz,1V | 19.0(23.0) | 7.5 | 5.8 | Fig1 | R47 |
| HMC0315-R56M | 0.56 | 20 | 100KHz,1V | 29.0(35.0) | 7.0 | 5.5 | Fig1 | R56 |
| HMC0315-R68M | 0.68 | 20 | 100KHz,1V | 34.0(42.0) | 6.5 | 5.0 | Fig1 | R68 |
| HMC0315-R82M | 0.8 | 20 | 100KHz,1V | 39.0(47.0) | 5.8 | 4.5 | Fig1 | R82 |
| HMC0315-1R0M | 1.0 | 20 | 100KHz,1V | 45.0(52.0) | 5.0 | 4.0 | Fig1 | 1R0 |
| HMC0315-1R5M | 1.5 | 20 | 100KHz,1V | 62.5(70.0) | 4.5 | 3.5 | Fig1 | 1R5 |
| HMC0315-2R2M | 2.2 | 20 | 100KHz,1V | 89.4(95.0) | 4.0 | 2.6 | Fig1 | 2R2 |
| HMC0315-3R3M | 3.3 | 20 | 100KHz,1V | 126.0(160.0) | 3.2 | 2.2 | Fig1 | 3R3 |

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- All test data is referenced to 25 $^{\circ}$ C ambient
- Operating Temperature Range -55 $^{\circ}$ C to +150 $^{\circ}$ C
- Irms : DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause Lo to drop approximately 35%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0302 Series

HMC0302 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0302-R33M | 0.33 | 20 | 100KHz,1V | 14.0(17.0) | 10.0 | 8.0 | Fig1 | R33 |
| HMC0302-R47M | 0.47 | 20 | 100KHz,1V | 15.8(19.5) | 9.0 | 7.0 | Fig1 | R47 |
| HMC0302-R68M | 0.68 | 20 | 100KHz,1V | 19.5(24.0) | 6.5 | 6.0 | Fig1 | R68 |
| HMC0302-R88M | 0.88 | 20 | 100KHz,1V | 28.8(35.0) | 6.0 | 5.5 | Fig1 | R88 |
| HMC0302-1R0M | 1.0 | 20 | 100KHz,1V | 34.0(38.0) | 5.5 | 4.3 | Fig1 | 1R0 |
| HMC0302-1R2M | 1.2 | 20 | 100KHz,1V | 39.0(45.0) | 4.5 | 4.0 | Fig1 | 1R2 |
| HMC0302-1R5M | 1.5 | 20 | 100KHz,1V | 41.6(48.0) | 4.8 | 3.6 | Fig1 | 1R5 |
| HMC0302-2R2M | 2.2 | 20 | 100KHz,1V | 69.5(78.0) | 4.5 | 3.2 | Fig1 | 2R2 |
| HMC0302-3R3M | 3.3 | 20 | 100KHz,1V | 99.5(115.0) | 3.8 | 2.8 | Fig1 | 3R3 |
| HMC0302-4R7M | 4.7 | 20 | 100KHz,1V | 117.0(215.0) | 3.2 | 2.3 | Fig1 | 4R7 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 35%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0412 Series

HMC0412 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat(Amps) | Irms(Amps) | Shape | Marking |
|--------------|------------|-----------|------------|--------------|------------|------------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | Typ.(Max) | Typ.(Max) | | |
| HMC0412-R47M | 0.47 | 20 | 100KHz,1V | 18.0(20.0) | 8.0(7.0) | 7.0(6.5) | Fig1 | R47 |
| HMC0412-R60M | 0.6 | 20 | 100KHz,1V | 32.0(37.0) | 6.5(6.0) | 5.0(4.5) | Fig1 | R60 |
| HMC0412-1R0M | 1.0 | 20 | 100KHz,1V | 41.0(45.0) | 6.2(5.8) | 4.5(4.0) | Fig1 | 1R0 |
| HMC0412-1R5M | 1.5 | 20 | 100KHz,1V | 57.0(70.0) | 4.0(3.5) | 3.25(3.0) | Fig1 | 1R5 |
| HMC0412-2R2M | 2.2 | 20 | 100KHz,1V | 70.0(80.0) | 3.5(3.0) | 2.8(2.5) | Fig1 | 2R2 |
| HMC0412-3R3M | 3.3 | 20 | 100KHz,1V | 90.0(115.0) | 3.0(2.8) | 2.3(2.0) | Fig1 | 3R3 |
| HMC0412-4R7M | 4.7 | 20 | 100KHz,1V | 105.0(115.0) | 2.5(2.2) | 2.9(2.6) | Fig1 | 4R7 |
| HMC0412-100M | 10 | 20 | 100KHz,1V | 205.0(240.0) | 1.6(1.4) | 1.8(1.6) | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0415 Series

HMC0415 series Electrical Characteristics

| Part No. | Inductance (μ H) | Tolerance (\pm %) | Test Freq. | RDC(m Ω) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------------|-------------------------|------------|-------------------------------|----------------|----------------|-------|---------|
| HMC0415-R22M | 0.22 | 20 | 100KHz, 1V | 9.5(11.0) | 11.0 | 8.0 | Fig1 | R22 |
| HMC0415-R33M | 0.33 | 20 | 100KHz, 1V | 15.0(19.0) | 10.0 | 7.0 | Fig1 | R33 |
| HMC0415-R47M | 0.47 | 20 | 100KHz, 1V | 17.0(20.0) | 8.0 | 6.0 | Fig1 | R47 |
| HMC0415-R68M | 0.68 | 20 | 100KHz, 1V | 19.0(22.0) | 7.5 | 5.0 | Fig1 | R68 |
| HMC0415-1R0M | 1.0 | 20 | 100KHz, 1V | 38.0(42.0) | 7.0 | 4.0 | Fig1 | 1R0 |
| HMC0415-1R5M | 1.5 | 20 | 100KHz, 1V | 48.0(50.0) | 6.0 | 3.5 | Fig1 | 1R5 |
| HMC0415-2R2M | 2.2 | 20 | 100KHz, 1V | 69.0(85.0) | 5.0 | 3.0 | Fig1 | 2R2 |
| HMC0415-3R3M | 3.3 | 20 | 100KHz, 1V | 120.0(140.0) | 3.5 | 2.3 | Fig1 | 3R3 |
| HMC0415-4R7M | 4.7 | 20 | 100KHz, 1V | 130.0(150.0) | 2.8 | 2.0 | Fig1 | 4R7 |

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate Δ T of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0402 Series

HMC0402 series Electrical Characteristics

| Part No. | Inductance (μ H) | Tolerance (\pm %) | Test Freq. | RDC(m Ω) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------------|-------------------------|------------|-------------------------------|----------------|----------------|-------|---------|
| HMC0402-R10T | 0.10 | 30 | 100KHz,1V | 3.8(4.5) | 23.0 | 12.0 | Fig1 | R10 |
| HMC0402-R22M | 0.22 | 20 | 100KHz,1V | 5.0(7.0) | 16.0 | 11.0 | Fig1 | R22 |
| HMC0402-R33M | 0.33 | 20 | 100KHz,1V | 8.2(10.5) | 12.0 | 10.5 | Fig1 | R33 |
| HMC0402-R36M | 0.36 | 20 | 100KHz,1V | 8.5(11.0) | 11.0 | 9.0 | Fig1 | R36 |
| HMC0402-R47M | 0.47 | 20 | 100KHz,1V | 11.0(14.0) | 10.0 | 7.0 | Fig1 | R47 |
| HMC0402-R56M | 0.56 | 20 | 100KHz,1V | 14.0(18.0) | 9.5 | 6.5 | Fig1 | R56 |
| HMC0402-R68M | 0.68 | 20 | 100KHz,1V | 15.0(20.0) | 8.0 | 6.0 | Fig1 | R68 |
| HMC0402-1R0M | 1.0 | 20 | 100KHz,1V | 23.0(27.0) | 7.0 | 4.5 | Fig1 | 1R0 |
| HMC0402-1R2M | 1.2 | 20 | 100KHz,1V | 28.0(33.0) | 6.5 | 4.0 | Fig1 | 1R2 |
| HMC0402-1R5M | 1.5 | 20 | 100KHz,1V | 30.0(36.0) | 6.0 | 4.0 | Fig1 | 1R5 |
| HMC0402-2R2M | 2.2 | 20 | 100KHz,1V | 49.0(58.0) | 5.0 | 3.0 | Fig1 | 2R2 |
| HMC0402-3R3M | 3.3 | 20 | 100KHz,1V | 78.0(87.0) | 4.0 | 3.0 | Fig1 | 3R3 |
| HMC0402-4R7M | 4.7 | 20 | 100KHz,1V | 105.0(140.0) | 3.0 | 2.2 | Fig1 | 4R7 |
| HMC0402-6R8M | 6.8 | 20 | 100KHz,1V | 120.0(175.0) | 2.5 | 2.0 | Fig1 | 6R8 |
| HMC0402-100M | 10 | 20 | 100KHz,1V | 185.0(220.0) | 2.0 | 1.5 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate Δ T of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0403 Series

HMC0403 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0403-R47M | 0.47 | 20 | 100KHz,1V | 6.9(7.6) | 10.9 | 10.6 | Fig1 | R47 |
| HMC0403-1R0M | 1.0 | 20 | 100KHz,1V | 19.0(28.0) | 10.0 | 6.5 | Fig1 | 1R0 |
| HMC0403-1R5M | 1.5 | 20 | 100KHz,1V | 24.0(28.0) | 7.0 | 5.0 | Fig1 | 1R5 |
| HMC0403-2R2M | 2.2 | 20 | 100KHz,1V | 29.0(36.0) | 6.5 | 4.5 | Fig1 | 2R2 |
| HMC0403-3R3M | 3.3 | 20 | 100KHz,1V | 38.0(48.0) | 4.5 | 3.7 | Fig1 | 3R3 |
| HMC0403-4R7M | 4.7 | 20 | 100KHz,1V | 44.0(53.8) | 3.2 | 3.6 | Fig1 | 4R7 |
| HMC0403-100M | 10 | 20 | 100KHz,1V | 120(140) | 3.0 | 2.5 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0515 Series

HMC0515 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0515-R22M | 0.22 | 20 | 100KHz,1V | 7.2(8.5) | 16.0 | 13.0 | Fig1 | R22 |
| HMC0515-R47M | 0.47 | 20 | 100KHz,1V | 12.0(13.8) | 12.0 | 8.0 | Fig1 | R47 |
| HMC0515-R68M | 0.68 | 20 | 100KHz,1V | 15.0(20.0) | 10.0 | 7.0 | Fig1 | R68 |
| HMC0515-1R0M | 1.0 | 20 | 100KHz,1V | 28.0(33.0) | 8.0 | 5.0 | Fig1 | 1R0 |
| HMC0515-2R2M | 2.2 | 20 | 100KHz,1V | 60.0(70.0) | 5.0 | 4.0 | Fig1 | 2R2 |
| HMC0515-3R3M | 3.3 | 20 | 100KHz,1V | 75.0(90.0) | 4.0 | 3.0 | Fig1 | 3R3 |
| HMC0515-4R7M | 4.7 | 20 | 100KHz,1V | 110(135) | 3.5 | 2.5 | Fig1 | 4R7 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0518 Series

HMC0518 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(m Ω) | Isat | Irms | Shape | Marking |
|--------------|------------|------------|------------|------------------|--------|--------|-------|---------|
| | (μ H) | (\pm %) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC0518-R47M | 0.47 | 20 | 100KHz,1V | 8.2(9.0) | 15.0 | 11.5 | Fig1 | R47 |
| HMC0518-R68M | 0.68 | 20 | 100KHz,1V | 11.5(12.5) | 11.0 | 9.5 | Fig1 | R68 |
| HMC0518-1R0M | 1.0 | 20 | 100KHz,1V | 15.0(20.0) | 8.0 | 6.0 | Fig1 | 1R0 |
| HMC0518-2R2M | 2.2 | 20 | 100KHz,1V | 42.0(50.0) | 6.0 | 4.0 | Fig1 | 2R2 |
| HMC0518-3R3M | 3.3 | 20 | 100KHz,1V | 58.0(70.0) | 5.0 | 3.5 | Fig1 | 3R3 |
| HMC0518-4R7M | 4.7 | 20 | 100KHz,1V | 105.0(115.0) | 4.0 | 3.0 | Fig1 | 4R7 |
| HMC0518-6R8M | 6.8 | 20 | 100KHz,1V | 120.0(150.0) | 2.8 | 2.5 | Fig1 | 6R8 |
| HMC0518-100M | 10 | 20 | 100KHz,1V | 180.0(200.0) | 2.0 | 1.5 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate Δ T of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0502 Series

HMC0502 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat | Irms | Shape | Marking |
|--------------|------------|-----------|------------|--------------|--------|--------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC0502-R22M | 0.22 | 20 | 100KHz,1V | 4.6(6.0) | 16.5 | 13.0 | Fig1 | R22 |
| HMC0502-R33M | 0.33 | 20 | 100KHz,1V | 7.4(9.0) | 15.0 | 12.0 | Fig1 | R33 |
| HMC0502-R47M | 0.47 | 20 | 100KHz,1V | 7.4(9.0) | 12.0 | 11.5 | Fig1 | R47 |
| HMC0502-1R0M | 1.0 | 20 | 100KHz,1V | 15.0(20.0) | 8.0 | 6.0 | Fig1 | 1R0 |
| HMC0502-1R5M | 1.5 | 20 | 100KHz,1V | 22.0(26.0) | 7.0 | 5.0 | Fig1 | 1R5 |
| HMC0502-2R2M | 2.2 | 20 | 100KHz,1V | 42.0(50.0) | 6.0 | 4.0 | Fig1 | 2R2 |
| HMC0502-2R7M | 2.7 | 20 | 100KHz,1V | 58.0(70.0) | 5.5 | 3.5 | Fig1 | 2R7 |
| HMC0502-3R3M | 3.3 | 20 | 100KHz,1V | 58.0(70.0) | 5.0 | 3.5 | Fig1 | 3R3 |
| HMC0502-4R7M | 4.7 | 20 | 100KHz,1V | 85.0(95.0) | 4.0 | 3.2 | Fig1 | 4R7 |
| HMC0502-6R8M | 6.8 | 20 | 100KHz,1V | 120.0(150.0) | 2.8 | 2.5 | Fig1 | 6R8 |
| HMC0502-100M | 10 | 20 | 100KHz,1V | 170.0(200.0) | 2.0 | 1.8 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0503 Series

HMC0503 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Shape |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|-------|
| HMC0503-R22M | 0.22 | 20 | 100KHz,1V | 4.5(5.0) | 25.0 | 14.0 | Fig1 | R22 |
| HMC0503-R47M | 0.47 | 20 | 100KHz,1V | 8.0(10.0) | 14.0 | 11.5 | Fig1 | R47 |
| HMC0503-R68M | 0.68 | 20 | 100KHz,1V | 9.0(12.0) | 12.0 | 9.0 | Fig1 | R68 |
| HMC0503-1R0M | 1.0 | 20 | 100KHz,1V | 12.0(15.0) | 11.0 | 7.0 | Fig1 | 1R0 |
| HMC0503-1R5M | 1.5 | 20 | 100KHz,1V | 15.0(20.0) | 9.0 | 6.0 | Fig1 | 1R5 |
| HMC0503-2R2M | 2.2 | 20 | 100KHz,1V | 28.0(35.0) | 8.0 | 5.0 | Fig1 | 2R2 |
| HMC0503-3R3M | 3.3 | 20 | 100KHz,1V | 38.0(45.0) | 7.0 | 4.5 | Fig1 | 3R3 |
| HMC0503-4R7M | 4.7 | 20 | 100KHz,1V | 52.0(60.0) | 5.0 | 4.0 | Fig1 | 4R7 |
| HMC0503-6R8M | 6.8 | 20 | 100KHz,1V | 62.0(80.0) | 3.5 | 3.0 | Fig1 | 6R8 |
| HMC0503-100M | 10 | 20 | 100KHz,1V | 110.0(130.0) | 3.5 | 2.8 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0615 Series

HMC0615 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0615-R10M | 0.1 | 20 | 100KHz,1V | 2.8(3.1) | 24.0 | 19.0 | Fig1 | R10 |
| HMC0615-R68M | 0.68 | 20 | 100KHz,1V | 12.5(13.5) | 12.0 | 8.5 | Fig1 | R68 |
| HMC0615-1R0M | 1.0 | 20 | 100KHz,1V | 17.0(21.0) | 7.0 | 5.5 | Fig1 | 1R0 |
| HMC0615-2R2M | 2.2 | 20 | 100KHz,1V | 45.0(50.0) | 6.0 | 5.0 | Fig1 | 2R2 |
| HMC0615-3R3M | 3.3 | 20 | 100KHz,1V | 55.0(70.0) | 5.0 | 3.0 | Fig1 | 3R3 |
| HMC0615-4R7M | 4.7 | 20 | 100KHz,1V | 95.0(110.0) | 4.5 | 2.8 | Fig1 | 4R7 |
| HMC0615-6R8M | 6.8 | 20 | 100KHz,1V | 125.0(135.0) | 3.5 | 2.5 | Fig1 | 6R8 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0618 Series

HMC0618 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0618-R10M | 0.1 | 20 | 100KHz,1V | 2.1(2.8) | 32.0 | 22.0 | Fig1 | R10 |
| HMC0618-R22M | 0.22 | 20 | 100KHz,1V | 3.0(3.5) | 25.0 | 18.0 | Fig1 | R22 |
| HMC0618-R33M | 0.33 | 20 | 100KHz,1V | 5.6(6.8) | 20.0 | 17.0 | Fig1 | R33 |
| HMC0618-R68M | 0.68 | 20 | 100KHz,1V | 8.7(12.0) | 12.0 | 9.0 | Fig1 | R68 |
| HMC0618-1R0M | 1.0 | 20 | 100KHz,1V | 18.0(20.0) | 11.0 | 8.0 | Fig1 | 1R0 |
| HMC0618-1R5M | 1.5 | 20 | 100KHz,1V | 26.0(30.0) | 10.0 | 7.0 | Fig1 | 1R5 |
| HMC0618-2R2M | 2.2 | 20 | 100KHz,1V | 32.0(35.0) | 8.0 | 6.0 | Fig1 | 2R2 |
| HMC0618-3R3M | 3.3 | 20 | 100KHz,1V | 50.0(55.0) | 7.0 | 4.0 | Fig1 | 3R3 |
| HMC0618-4R7M | 4.7 | 20 | 100KHz,1V | 55.0(70.0) | 5.0 | 3.5 | Fig1 | 4R7 |
| HMC0618-6R8M | 6.8 | 20 | 100KHz,1V | 80.0(110.0) | 4.0 | 2.8 | Fig1 | 6R8 |
| HMC0618-100M | 10 | 20 | 100KHz,1V | 115.0(150.0) | 3.0 | 2.3 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0602 Series

HMC0602 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0602-R10M | 0.1 | 20 | 100KHz,1V | 2.1(2.8) | 32.0 | 22.0 | Fig1 | R10 |
| HMC0602-R22M | 0.22 | 20 | 100KHz,1V | 3.8(5.2) | 25.0 | 18.0 | Fig1 | R22 |
| HMC0602-R33M | 0.33 | 20 | 100KHz,1V | 5.6(6.8) | 20.0 | 17.0 | Fig1 | R33 |
| HMC0602-R47M | 0.47 | 20 | 100KHz,1V | 7.2(8.4) | 16.0 | 11.0 | Fig1 | R47 |
| HMC0602-R68M | 0.68 | 20 | 100KHz,1V | 9.5(12.0) | 15.0 | 9.0 | Fig1 | R68 |
| HMC0602-1R0M | 1.0 | 20 | 100KHz,1V | 18.0(20.0) | 13.0 | 8.0 | Fig1 | 1R0 |
| HMC0602-2R2M | 2.2 | 20 | 100KHz,1V | 32.0(35.0) | 9.0 | 6.0 | Fig1 | 2R2 |
| HMC0602-3R3M | 3.3 | 20 | 100KHz,1V | 50.0(55.0) | 7.0 | 4.0 | Fig1 | 3R3 |
| HMC0602-4R7M | 4.7 | 20 | 100KHz,1V | 55.0(70.0) | 5.0 | 3.5 | Fig1 | 4R7 |
| HMC0602-5R6M | 5.6 | 20 | 100KHz,1V | 63.0(80.0) | 4.5 | 3.0 | Fig1 | 5R6 |
| HMC0602-6R8M | 6.8 | 20 | 100KHz,1V | 82.0(110.0) | 4.0 | 2.8 | Fig1 | 6R8 |
| HMC0602-100M | 10 | 20 | 100KHz,1V | 105.0(120.0) | 3.0 | 2.3 | Fig1 | 100 |
| HMC0602-150M | 15 | 20 | 100KHz,1V | 147.0(170.0) | 2.5 | 2.0 | Fig1 | 150 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0624 Series

HMC0624 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat | Irms | Shape | Marking |
|--------------|------------|-----------|------------|--------------|--------|--------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC0624-R10M | 0.1 | 20 | 100KHz, 1V | 2.1(2.5) | 35.0 | 22.0 | Fig1 | R10 |
| HMC0624-R22M | 0.22 | 20 | 100KHz, 1V | 2.9(3.2) | 27.0 | 20.0 | Fig1 | R22 |
| HMC0624-R33M | 0.33 | 20 | 100KHz, 1V | 3.5(4.5) | 24.0 | 18.0 | Fig1 | R33 |
| HMC0624-R47M | 0.47 | 20 | 100KHz, 1V | 5.6(6.8) | 21.0 | 15.0 | Fig1 | R47 |
| HMC0624-R68M | 0.68 | 20 | 100KHz, 1V | 7.0(9.0) | 18.0 | 9.0 | Fig1 | R68 |
| HMC0624-R82M | 0.82 | 20 | 100KHz, 1V | 7.0(9.0) | 18.0 | 9.0 | Fig1 | R82 |
| HMC0624-1R0M | 1.0 | 20 | 100KHz, 1V | 11.0(13.0) | 15.0 | 9.0 | Fig1 | 1R0 |
| HMC0624-1R5M | 1.5 | 20 | 100KHz, 1V | 16.5(20.0) | 12.0 | 8.0 | Fig1 | 1R5 |
| HMC0624-2R2M | 2.2 | 20 | 100KHz, 1V | 22.0(28.0) | 10.0 | 7.0 | Fig1 | 2R2 |
| HMC0624-3R3M | 3.3 | 20 | 100KHz, 1V | 42.0(50.0) | 8.0 | 5.5 | Fig1 | 3R3 |
| HMC0624-4R7M | 4.7 | 20 | 100KHz, 1V | 47.0(50.0) | 7.0 | 5.0 | Fig1 | 4R7 |
| HMC0624-6R8M | 6.8 | 20 | 100KHz, 1V | 82.0(90.0) | 6.0 | 3.5 | Fig1 | 6R8 |
| HMC0624-100M | 10 | 20 | 100KHz, 1V | 89.0(101.0) | 4.0 | 3.1 | Fig1 | 100 |
| HMC0624-150M | 15 | 20 | 100KHz, 1V | 120.0(160.0) | 3.3 | 2.5 | Fig1 | 150 |
| HMC0624-220M | 22 | 20 | 100KHz, 1V | 217.0(230.0) | 2.5 | 2.0 | Fig1 | 220 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0603 Series

HMC0603 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat | Irms | shape | Marking |
|--------------|------------|-----------|------------|--------------|--------|--------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC0603-R18M | 0.18 | 20 | 100KHz,1V | 1.2(1.6) | 40.0 | 24.0 | Fig2 | R18 |
| HMC0603-R22M | 0.22 | 20 | 100KHz,1V | 2.5(3.0) | 34.0 | 23.0 | Fig1 | R22 |
| HMC0603-R33M | 0.33 | 20 | 100KHz,1V | 3.0(3.5) | 25.0 | 21.0 | Fig1 | R33 |
| HMC0603-R47M | 0.47 | 20 | 100KHz,1V | 3.6(4.5) | 20.0 | 17.5 | Fig1 | R47 |
| HMC0603-R56M | 0.56 | 20 | 100KHz,1V | 3.7(4.5) | 18.0 | 16.5 | Fig1 | R56 |
| HMC0603-R68M | 0.68 | 20 | 100KHz,1V | 5.0(5.5) | 17.0 | 16.0 | Fig1 | R68 |
| HMC0603-1R0M | 1.0 | 20 | 100KHz,1V | 7.0(8.0) | 15.3 | 12.0 | Fig1 | 1R0 |
| HMC0603-1R5M | 1.5 | 20 | 100KHz,1V | 10.5(12.0) | 13.0 | 9.0 | Fig1 | 1R5 |
| HMC0603-2R2M | 2.2 | 20 | 100KHz,1V | 13.5(16.0) | 10.2 | 8.0 | Fig1 | 2R2 |
| HMC0603-3R3M | 3.3 | 20 | 100KHz,1V | 21.0(25.0) | 8.0 | 6.5 | Fig1 | 3R3 |
| HMC0603-4R7M | 4.7 | 20 | 100KHz,1V | 28.0(35.0) | 6.6 | 5.5 | Fig1 | 4R7 |
| HMC0603-5R6M | 5.6 | 20 | 100KHz,1V | 45.0(55.0) | 7.0 | 5.0 | Fig1 | 5R6 |
| HMC0603-6R8M | 6.8 | 20 | 100KHz,1V | 45.0(55.0) | 6.1 | 5.0 | Fig1 | 6R8 |
| HMC0603-8R2M | 8.2 | 20 | 100KHz,1V | 60.0(68.0) | 6.0 | 4.0 | Fig1 | 8R2 |
| HMC0603-100M | 10 | 20 | 100KHz,1V | 60.0(68.0) | 5.0 | 4.0 | Fig1 | 100 |
| HMC0603-150M | 15 | 20 | 100KHz,1V | 95.0(110.0) | 4.5 | 2.8 | Fig1 | 150 |
| HMC0603-220M | 22 | 20 | 100KHz,1V | 121.0(167.0) | 3.0 | 2.5 | Fig1 | 220 |
| HMC0603-330M | 33 | 20 | 100KHz,1V | 218.0(245.0) | 2.5 | 1.5 | Fig1 | 330 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0604 Series

HMC0604 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0604-R15M | 0.15 | 20 | 100KHz, 1V | 0.65(1.0) | 48.0 | 25.0 | Fig2 | R15 |
| HMC0604-R22M | 0.22 | 20 | 100KHz, 1V | 1.1(1.5) | 35.0 | 23.0 | Fig2 | R22 |
| HMC0604-R33M | 0.33 | 20 | 100KHz, 1V | 2.8(3.5) | 25.0 | 21.0 | Fig1 | R33 |
| HMC0604-R47M | 0.47 | 20 | 100KHz, 1V | 3.5(4.5) | 21.0 | 17.0 | Fig1 | R47 |
| HMC0604-R56M | 0.56 | 20 | 100KHz, 1V | 4.4(5.5) | 18.0 | 16.0 | Fig1 | R56 |
| HMC0604-R68M | 0.68 | 20 | 100KHz, 1V | 4.4(5.5) | 17.0 | 14.0 | Fig1 | R68 |
| HMC0604-1R0M | 1.0 | 20 | 100KHz, 1V | 7.0(8.0) | 15.0 | 10.0 | Fig1 | 1R0 |
| HMC0604-1R5M | 1.5 | 20 | 100KHz, 1V | 7.7(9.0) | 13.0 | 9.0 | Fig1 | 1R5 |
| HMC0604-2R2M | 2.2 | 20 | 100KHz, 1V | 13.5(16.0) | 11.0 | 8.0 | Fig1 | 2R2 |
| HMC0604-3R3M | 3.3 | 20 | 100KHz, 1V | 14.0(2000) | 9.0 | 6.5 | Fig1 | 3R3 |
| HMC0604-4R7M | 4.7 | 20 | 100KHz, 1V | 22.0(25.0) | 8.0 | 6.0 | Fig1 | 4R7 |
| HMC0604-6R8M | 6.8 | 20 | 100KHz, 1V | 35.0(45.0) | 7.0 | 5.0 | Fig1 | 6R8 |
| HMC0604-8R2M | 8.2 | 20 | 100KHz, 1V | 46.0(55.0) | 6.5 | 4.0 | Fig1 | 8R2 |
| HMC0604-100M | 10 | 20 | 100KHz, 1V | 53.0(65.0) | 6.0 | 3.5 | Fig1 | 100 |
| HMC0604-150M | 15 | 20 | 100KHz, 1V | 70.0(80.0) | 4.5 | 3.0 | Fig1 | 150 |
| HMC0604-220M | 22 | 20 | 100KHz, 1V | 100.0(120.0) | 3.5 | 2.5 | Fig1 | 220 |
| HMC0604-330M | 33 | 20 | 100KHz, 1V | 165.0(200.0) | 3.0 | 2.0 | Fig1 | 330 |
| HMC0604-470M | 47 | 20 | 100KHz, 1V | 230.0(260.0) | 2.0 | 1.5 | Fig1 | 470 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0605 Series

HMC0605 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0605-R15M | 0.15 | 20 | 100KHz,1V | 0.65(1.0) | 50.0 | 30.0 | Fig2 | R15 |
| HMC0605-R22M | 0.22 | 20 | 100KHz,1V | 1.9(3.0) | 43.0 | 25.0 | Fig1 | R22 |
| HMC0605-R36M | 0.36 | 20 | 100KHz,1V | 2.3(2.5) | 30.0 | 22.0 | Fig1 | R36 |
| HMC0605-R47M | 0.47 | 20 | 100KHz,1V | 3.2(4.5) | 24.0 | 18.0 | Fig1 | R47 |
| HMC0605-R82M | 0.82 | 20 | 100KHz,1V | 5.8(6.5) | 20.0 | 14.0 | Fig1 | R82 |
| HMC0605-1R0M | 1.0 | 20 | 100KHz,1V | 7.2(8.0) | 17.0 | 12.0 | Fig1 | 1R0 |
| HMC0605-1R5M | 1.5 | 20 | 100KHz,1V | 7.7(9.0) | 14.0 | 10.0 | Fig1 | 1R5 |
| HMC0605-2R2M | 2.2 | 20 | 100KHz,1V | 10.5(12.5) | 12.0 | 9.5 | Fig1 | 2R2 |
| HMC0605-2R7M | 2.7 | 20 | 100KHz,1V | 16.0(20.0) | 11.0 | 8.5 | Fig1 | 2R7 |
| HMC0605-3R3M | 3.3 | 20 | 100KHz,1V | 16.0(20.0) | 9.0 | 8.5 | Fig1 | 3R3 |
| HMC0605-4R7M | 4.7 | 20 | 100KHz,1V | 22.0(25.0) | 8.0 | 6.5 | Fig1 | 4R7 |
| HMC0605-6R8M | 6.8 | 20 | 100KHz,1V | 30.0(35.0) | 7.5 | 6.0 | Fig1 | 6R8 |
| HMC0605-100M | 10 | 20 | 100KHz,1V | 53.0(60.0) | 5.5 | 4.5 | Fig1 | 100 |
| HMC0605-150M | 15 | 20 | 100KHz,1V | 76.0(85.0) | 5.0 | 3.5 | Fig1 | 150 |
| HMC0605-220M | 22 | 20 | 100KHz,1V | 101(130) | 4.0 | 2.5 | Fig1 | 220 |
| HMC0605-330M | 33 | 20 | 100KHz,1V | 158(176.4) | 3.0 | 2.0 | Fig1 | 330 |
| HMC0605-470M | 47 | 20 | 100KHz,1V | 190(225) | 2.5 | 1.8 | Fig1 | 470 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0705 Series

HMC0705 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0705-1R0M | 1.0 | 20 | 100KHz, 1V | 4.0(5.0) | 20.0 | 14.0 | Fig1 | 1R0 |
| HMC0705-1R5M | 1.5 | 20 | 100KHz, 1V | 6.5(7.5) | 16.0 | 11.0 | Fig1 | 1R5 |
| HMC0705-2R2M | 2.2 | 20 | 100KHz, 1V | 7.6(8.5) | 14.0 | 10.0 | Fig1 | 2R2 |
| HMC0705-3R3M | 3.3 | 20 | 100KHz, 1V | 14.0(16.0) | 13.0 | 8.0 | Fig1 | 3R3 |
| HMC0705-4R7M | 4.7 | 20 | 100KHz, 1V | 19.0(20.9) | 12.5 | 7.0 | Fig1 | 4R7 |
| HMC0705-6R8M | 6.8 | 20 | 100KHz, 1V | 24.2(28.0) | 10.0 | 6.0 | Fig1 | 6R8 |
| HMC0705-8R2M | 8.2 | 20 | 100KHz, 1V | 29.0(32.0) | 9.0 | 5.5 | Fig1 | 8R2 |
| HMC0705-100M | 10 | 20 | 100KHz, 1V | 34.5(38.0) | 6.9 | 5.2 | Fig1 | 100 |
| HMC0705-150M | 15 | 20 | 100KHz, 1V | 60.0(66.0) | 6.5 | 3.8 | Fig1 | 150 |
| HMC0705-220M | 22 | 20 | 100KHz, 1V | 85.0(100) | 4.5 | 3.3 | Fig1 | 220 |
| HMC0705-330M | 33 | 20 | 100KHz, 1V | 153(170) | 4.0 | 2.5 | Fig1 | 330 |
| HMC0705-470M | 47 | 20 | 100KHz, 1V | 160(171.6) | 3.0 | 2.4 | Fig1 | 470 |
| HMC0705-680M | 68 | 20 | 100KHz, 1V | 222(225) | 2.5 | 1.8 | Fig1 | 680 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC0803 Series

HMC0803 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0803-R22M | 0.22 | 20 | 100KHz,1V | 1.9(2.3) | 36.0 | 27.0 | Fig1 | R22 |
| HMC0803-R33M | 0.33 | 20 | 100KHz,1V | 2.2(2.6) | 28.0 | 25.0 | Fig1 | R33 |
| HMC0803-R47M | 0.47 | 20 | 100KHz,1V | 2.6(3.1) | 23.5 | 23.0 | Fig1 | R47 |
| HMC0803-R68M | 0.68 | 20 | 100KHz,1V | 3.6(4.3) | 20.7 | 20.0 | Fig1 | R68 |
| HMC0803-R82M | 0.82 | 20 | 100KHz,1V | 3.9(4.7) | 18.0 | 19.0 | Fig1 | R82 |
| HMC0803-1R0M | 1.0 | 20 | 100KHz,1V | 4.5(5.4) | 17.0 | 17.0 | Fig1 | 1R0 |
| HMC0803-1R2M | 1.2 | 20 | 100KHz,1V | 5.6(6.7) | 15.3 | 16.0 | Fig1 | 1R2 |
| HMC0803-1R5M | 1.5 | 20 | 100KHz,1V | 7.8(9.3) | 15.0 | 11.5 | Fig1 | 1R5 |
| HMC0803-2R2M | 2.2 | 20 | 100KHz,1V | 10.8(13.0) | 11.7 | 10.0 | Fig1 | 2R2 |
| HMC0803-3R3M | 3.3 | 20 | 100KHz,1V | 16.2(19.0) | 9.5 | 9.5 | Fig1 | 3R3 |
| HMC0803-4R7M | 4.7 | 20 | 100KHz,1V | 26.0(31.0) | 8.6 | 6.6 | Fig1 | 4R7 |
| HMC0803-5R6M | 5.6 | 20 | 100KHz,1V | 29.0(35.0) | 6.8 | 6.3 | Fig1 | 5R6 |
| HMC0803-6R8M | 6.8 | 20 | 100KHz,1V | 36.0(43.0) | 6.3 | 6.0 | Fig1 | 6R8 |
| HMC0803-8R2M | 8.2 | 20 | 100KHz,1V | 45.0(54.0) | 6.0 | 5.0 | Fig1 | 8R2 |
| HMC0803-100M | 10 | 20 | 100KHz,1V | 60.0(72.0) | 5.4 | 4.5 | Fig1 | 100 |
| HMC0803-150M | 15 | 20 | 100KHz,1V | 84.0(100) | 4.7 | 3.6 | Fig1 | 150 |
| HMC0803-220M | 22 | 20 | 100KHz,1V | 120(145) | 3.9 | 3.0 | Fig1 | 220 |
| HMC0803-330M | 33 | 20 | 100KHz,1V | 170(204) | 3.2 | 2.5 | Fig1 | 330 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC0804 Series

HMC0804 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC0804-R22M | 0.22 | 20 | 100KHz,1V | 2.0(2.4) | 40.5 | 29.0 | Fig1 | R22 |
| HMC0804-R33M | 0.33 | 20 | 100KHz,1V | 2.5(3.0) | 32.5 | 24.0 | Fig1 | R33 |
| HMC0804-R47M | 0.47 | 20 | 100KHz,1V | 3.2(3.8) | 24.5 | 21.0 | Fig1 | R47 |
| HMC0804-R68M | 0.68 | 20 | 100KHz,1V | 3.6(4.3) | 20.5 | 18.0 | Fig1 | R68 |
| HMC0804-R82M | 0.82 | 20 | 100KHz,1V | 4.2(5.0) | 19.0 | 17.0 | Fig1 | R82 |
| HMC0804-1R0M | 1.0 | 20 | 100KHz,1V | 4.7(5.6) | 18.0 | 16.5 | Fig1 | 1R0 |
| HMC0804-1R5M | 1.5 | 20 | 100KHz,1V | 7.0(8.4) | 15.3 | 13.0 | Fig1 | 1R5 |
| HMC0804-2R2M | 2.2 | 20 | 100KHz,1V | 8.0(9.6) | 12.6 | 12.5 | Fig1 | 2R2 |
| HMC0804-3R3M | 3.3 | 20 | 100KHz,1V | 12.5(15.0) | 10.8 | 10.0 | Fig1 | 3R3 |
| HMC0804-4R7M | 4.7 | 20 | 100KHz,1V | 20.0(24.0) | 8.0 | 7.3 | Fig1 | 4R7 |
| HMC0804-5R6M | 5.6 | 20 | 100KHz,1V | 22.0(26.5) | 7.7 | 7.0 | Fig1 | 5R6 |
| HMC0804-6R8M | 6.8 | 20 | 100KHz,1V | 28.0(34.0) | 7.5 | 6.0 | Fig1 | 6R8 |
| HMC0804-8R2M | 8.2 | 20 | 100KHz,1V | 32.0(38.5) | 7.2 | 5.5 | Fig1 | 8R2 |
| HMC0804-100M | 10 | 20 | 100KHz,1V | 45.0(54.0) | 6.3 | 4.8 | Fig1 | 100 |
| HMC0804-150M | 15 | 20 | 100KHz,1V | 59.0(70.0) | 5.2 | 4.5 | Fig1 | 150 |
| HMC0804-220M | 22 | 20 | 100KHz,1V | 82.0(98.0) | 5.0 | 3.6 | Fig1 | 220 |
| HMC0804-330M | 33 | 20 | 100KHz,1V | 145(174) | 3.2 | 2.8 | Fig1 | 330 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC1003 Series

HMC1003 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat | Irms | Shape | Marking |
|--------------|------------|-----------|------------|------------|--------|--------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC1003-R22M | 0.22 | 20 | 100KHz,1V | 0.7(1.0) | 40.0 | 30.0 | Fig2 | R22 |
| HMC1003-R36M | 0.36 | 20 | 100KHz,1V | 1.4(1.6) | 35.0 | 23.0 | Fig2 | R36 |
| HMC1003-R47M | 0.47 | 20 | 100KHz,1V | 1.5(1.7) | 24.0 | 18.0 | Fig2 | R47 |
| HMC1003-R68M | 0.68 | 20 | 100KHz,1V | 2.6(3.2) | 23.0 | 17.0 | Fig2 | R68 |
| HMC1003-1R0M | 1.0 | 20 | 100KHz,1V | 5.0(7.0) | 19.0 | 13.0 | Fig1 | 1R0 |
| HMC1003-1R5M | 1.5 | 20 | 100KHz,1V | 7.2(9.0) | 18.0 | 10.0 | Fig1 | 1R5 |
| HMC1003-2R2M | 2.2 | 20 | 100KHz,1V | 8.0(10.0) | 16.0 | 9.0 | Fig1 | 2R2 |
| HMC1003-3R3M | 3.3 | 20 | 100KHz,1V | 14.0(20.0) | 12.0 | 7.0 | Fig1 | 3R3 |
| HMC1003-4R7M | 4.7 | 20 | 100KHz,1V | 24.0(28.0) | 11.0 | 6.0 | Fig1 | 4R7 |
| HMC1003-6R8M | 6.8 | 20 | 100KHz,1V | 34.0(45.0) | 8.0 | 5.0 | Fig1 | 6R8 |
| HMC1003-100M | 10 | 20 | 100KHz,1V | 54.0(58.0) | 7.5 | 4.0 | Fig1 | 100 |
| HMC1003-150M | 15 | 20 | 100KHz,1V | 65.0(75.0) | 5.0 | 3.5 | Fig1 | 150 |
| HMC1003-220M | 22 | 20 | 100KHz,1V | 75.0(90.0) | 4.0 | 2.5 | Fig1 | 220 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC1005 Series

HMC1005 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC1005-R15M | 0.15 | 20 | 100KHz,1V | 0.5(0.6) | 65.0 | 48.0 | Fig2 | R15 |
| HMC1005-R22M | 0.22 | 20 | 100KHz,1V | 0.5(0.6) | 60.0 | 40.0 | Fig2 | R22 |
| HMC1005-R36M | 0.36 | 20 | 100KHz,1V | 0.9(1.1) | 55.0 | 38.0 | Fig2 | R36 |
| HMC1005-R47M | 0.47 | 20 | 100KHz,1V | 1.1(1.3) | 50.0 | 36.0 | Fig2 | R47 |
| HMC1005-R68M | 0.68 | 20 | 100KHz,1V | 1.6(2.0) | 40.0 | 25.0 | Fig2 | R68 |
| HMC1005-R82M | 0.82 | 20 | 100KHz,1V | 2.0(2.5) | 34.0 | 20.0 | Fig2 | R82 |
| HMC1005-1R0M | 1.0 | 20 | 100KHz,1V | 2.56(2.8) | 30.0 | 22.0 | Fig2 | 1R0 |
| HMC1005-1R5M | 1.5 | 20 | 100KHz,1V | 3.9(4.6) | 25.0 | 18.0 | Fig1 | 1R5 |
| HMC1005-2R2M | 2.2 | 20 | 100KHz,1V | 6.4(6.86) | 20.0 | 17.0 | Fig1 | 2R2 |
| HMC1005-3R3M | 3.3 | 20 | 100KHz,1V | 10.4(11.56) | 16.0 | 12.0 | Fig1 | 3R3 |
| HMC1005-4R7M | 4.7 | 20 | 100KHz,1V | 13.0(16.0) | 15.0 | 10.0 | Fig1 | 4R7 |
| HMC1005-5R6M | 5.6 | 20 | 100KHz,1V | 13.5(18.0) | 14.0 | 9.0 | Fig1 | 5R6 |
| HMC1005-6R8M | 6.8 | 20 | 100KHz,1V | 17.0(22.0) | 12.0 | 8.0 | Fig1 | 6R8 |
| HMC1005-8R2M | 8.2 | 20 | 100KHz,1V | 22.0(25.0) | 11.0 | 7.0 | Fig1 | 8R2 |
| HMC1005-100M | 10 | 20 | 100KHz,1V | 26.0(30.0) | 10.0 | 6.0 | Fig1 | 100 |
| HMC1005-150M | 15 | 20 | 100KHz,1V | 39.0(45.0) | 8.0 | 5.0 | Fig1 | 150 |
| HMC1005-220M | 22 | 20 | 100KHz,1V | 55.0(62.0) | 7.0 | 4.5 | Fig1 | 220 |
| HMC1005-330M | 33 | 20 | 100KHz,1V | 90.0(95.0) | 6.0 | 4.0 | Fig1 | 330 |
| HMC1005-470M | 47 | 20 | 100KHz,1V | 127(145) | 5.0 | 3.5 | Fig1 | 470 |
| HMC1005-680M | 68 | 20 | 100KHz,1V | 215(258) | 5.0 | 3.0 | Fig1 | 680 |
| HMC1005-820M | 82 | 20 | 100KHz,1V | 222(280) | 4.5 | 2.0 | Fig1 | 82 |
| HMC1005-101M | 100 | 20 | 100KHz,1V | 222(280) | 4.0 | 2.0 | Fig1 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC1004 Series

HMC1004 series Electrical Characteristics

| Part No. | Inductance (μ H) | Tolerance (\pm %) | Test Freq. | RDC(m Ω) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------------|-------------------------|------------|-------------------------------|----------------|----------------|-------|---------|
| HMC1004-R15M | 0.15 | 20 | 100KHz,1V | 0.5(0.6) | 65.0 | 48.0 | Fig2 | R15 |
| HMC1004-R22M | 0.22 | 20 | 100KHz,1V | 0.6(0.8) | 55.0 | 35.0 | Fig2 | R22 |
| HMC1004-R36M | 0.36 | 20 | 100KHz,1V | 1.1(1.4) | 50.0 | 30.0 | Fig2 | R36 |
| HMC1004-R47M | 0.47 | 20 | 100KHz,1V | 1.4(1.6) | 35.0 | 25.0 | Fig2 | R47 |
| HMC1004-R56M | 0.56 | 20 | 100KHz,1V | 1.5(1.7) | 30.0 | 23.0 | Fig2 | R56 |
| HMC1004-R68M | 0.68 | 20 | 100KHz,1V | 1.7(2.4) | 30.0 | 20.0 | Fig2 | R68 |
| HMC1004-1R0M | 1.0 | 20 | 100KHz,1V | 2.8(3.5) | 26.0 | 20.0 | Fig2 | 1R0 |
| HMC1004-1R5M | 1.5 | 20 | 100KHz,1V | 4.5(5.8) | 22.0 | 16.0 | Fig1 | 1R5 |
| HMC1004-2R2M | 2.2 | 20 | 100KHz,1V | 6.5(7.5) | 18.0 | 12.0 | Fig1 | 2R2 |
| HMC1004-3R3M | 3.3 | 20 | 100KHz,1V | 10.5(11.6) | 16.0 | 11.0 | Fig1 | 3R3 |
| HMC1004-4R7M | 4.7 | 20 | 100KHz,1V | 13.5(16.5) | 15.0 | 9.0 | Fig1 | 4R7 |
| HMC1004-5R6M | 5.6 | 20 | 100KHz,1V | 18.0(22.0) | 12.0 | 7.0 | Fig1 | 5R6 |
| HMC1004-6R8M | 6.8 | 20 | 100KHz,1V | 20.0(25.0) | 11.0 | 7.0 | Fig1 | 6R8 |
| HMC1004-8R2M | 8.2 | 20 | 100KHz,1V | 33.0(36.0) | 9.0 | 6.0 | Fig1 | 8R2 |
| HMC1004-100M | 10 | 20 | 100KHz,1V | 35.0(40.0) | 8.5 | 6.0 | Fig1 | 100 |
| HMC1004-150M | 15 | 20 | 100KHz,1V | 42.0(45.0) | 7.0 | 6.0 | Fig1 | 150 |
| HMC1004-220M | 22 | 20 | 100KHz,1V | 62.0(68.0) | 5.6 | 5.1 | Fig1 | 220 |
| HMC1004-330M | 33 | 20 | 100KHz,1V | 90.0(100) | 5.0 | 3.5 | Fig1 | 330 |
| HMC1004-470M | 47 | 20 | 100KHz,1V | 127(145) | 4.0 | 3.3 | Fig1 | 470 |

Note: When ordering, please specify tolerance code. Tolerance: M= \pm 20% , T= \pm 30%

- All test data is referenced to 25 $^{\circ}$ C ambient
- Operating Temperature Range -55 $^{\circ}$ C to +150 $^{\circ}$ C
- Irms : DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC1235 Series

HMC1235 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC1235-R15M | 0.15 | 20 | 100KHz,1V | 0.7(0.9) | 65.0 | 40.0 | Fig2 | R15 |
| HMC1235-R22M | 0.22 | 20 | 100KHz,1V | 0.9(1.2) | 60.0 | 35.0 | Fig2 | R22 |
| HMC1235-R33M | 0.33 | 20 | 100KHz,1V | 1.1(1.5) | 55.0 | 32.0 | Fig2 | R33 |
| HMC1235-R47M | 0.47 | 20 | 100KHz,1V | 1.1(1.5) | 45.0 | 30.0 | Fig2 | R47 |
| HMC1235-R68M | 0.68 | 20 | 100KHz,1V | 2.1(2.5) | 40.0 | 28.0 | Fig2 | R68 |
| HMC1235-1R0M | 1.0 | 20 | 100KHz,1V | 3.2(3.5) | 28.0 | 24.0 | Fig1 | 1R0 |
| HMC1235-1R5M | 1.5 | 20 | 100KHz,1V | 5.1(5.5) | 25.0 | 19.0 | Fig1 | 1R5 |
| HMC1235-2R2M | 2.2 | 20 | 100KHz,1V | 7.0(8.0) | 22.0 | 16.0 | Fig1 | 2R2 |
| HMC1235-3R3M | 3.3 | 20 | 100KHz,1V | 10.0(12.0) | 20.0 | 12.0 | Fig1 | 3R3 |
| HMC1235-4R7M | 4.7 | 20 | 100KHz,1V | 16.0(20.0) | 14.0 | 10.0 | Fig1 | 4R7 |
| HMC1235-6R8M | 6.8 | 20 | 100KHz,1V | 19.0(22.0) | 13.0 | 9.0 | Fig1 | 6R8 |
| HMC1235-100M | 10 | 20 | 100KHz,1V | 28.0(35.0) | 10.0 | 6.0 | Fig1 | 100 |
| HMC1235-150M | 15 | 20 | 100KHz,1V | 70.0(90.0) | 7.0 | 4.0 | Fig1 | 150 |
| HMC1235-220M | 22 | 20 | 100KHz,1V | 99.0(110) | 5.5 | 3.0 | Fig1 | 220 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC1205 Series

HMC1205 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC1205-R22M | 0.22 | 20 | 100KHz, 1V | 0.5(0.7) | 60.0 | 40.0 | Fig2 | R22 |
| HMC1205-R36M | 0.36 | 20 | 100KHz, 1V | 0.7(0.9) | 55.0 | 38.0 | Fig2 | R36 |
| HMC1205-R47M | 0.47 | 20 | 100KHz, 1V | 1.0(1.3) | 55.0 | 31.0 | Fig2 | R47 |
| HMC1205-R68M | 0.68 | 20 | 100KHz, 1V | 1.3(1.5) | 50.0 | 30.0 | Fig2 | R68 |
| HMC1205-R82M | 0.82 | 20 | 100KHz, 1V | 1.7(2.1) | 45.0 | 29.0 | Fig2 | R82 |
| HMC1205-1R0M | 1.0 | 20 | 100KHz, 1V | 1.8(2.5) | 40.0 | 28.0 | Fig2 | 1R0 |
| HMC1205-1R5M | 1.5 | 20 | 100KHz, 1V | 2.7(4.1) | 35.0 | 21.0 | Fig2 | 1R5 |
| HMC1205-2R2M | 2.2 | 20 | 100KHz, 1V | 3.5(5.5) | 24.0 | 18.0 | Fig2 | 2R2 |
| HMC1205-3R3M | 3.3 | 20 | 100KHz, 1V | 7.5(9.0) | 22.0 | 15.0 | Fig1 | 3R3 |
| HMC1205-4R7M | 4.7 | 20 | 100KHz, 1V | 11.0(12.0) | 18.0 | 11.0 | Fig1 | 4R7 |
| HMC1205-6R8M | 6.8 | 20 | 100KHz, 1V | 15.0(18.0) | 17.0 | 11.0 | Fig1 | 6R8 |
| HMC1205-8R2M | 8.2 | 20 | 100KHz, 1V | 19.0(23.0) | 16.0 | 10.0 | Fig1 | 8R2 |
| HMC1205-100M | 10 | 20 | 100KHz, 1V | 23.0(30.0) | 12.0 | 7.0 | Fig1 | 100 |
| HMC1205-150M | 15 | 20 | 100KHz, 1V | 46.0(50.0) | 10.0 | 6.0 | Fig1 | 150 |
| HMC1205-220M | 22 | 20 | 100KHz, 1V | 60.0(70.0) | 7.0 | 4.0 | Fig1 | 220 |
| HMC1205-330M | 33 | 20 | 100KHz, 1V | 72.0(80.0) | 6.0 | 3.0 | Fig1 | 330 |
| HMC1205-470M | 47 | 20 | 100KHz, 1V | 85.0(100) | 5.0 | 2.5 | Fig1 | 470 |
| HMC1205-560M | 56 | 20 | 100KHz, 1V | 154(180) | 4.5 | 2.0 | Fig1 | 560 |
| HMC1205-680M | 68 | 20 | 100KHz, 1V | 154(180) | 4.0 | 2.0 | Fig1 | 680 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- I_{rms} : DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat} : DC current (A) that will cause L_o to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC1265 Series

HMC1265 series Electrical Characteristics

| Part No. | Inductance (uH) | Tolerance (±%) | Test Freq. | RDC(mΩ) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------|-------------------|------------|----------------------|----------------|----------------|-------|---------|
| HMC1265-R22M | 0.22 | 20 | 100KHz,1V | 0.5(0.7) | 70.0 | 40.0 | Fig2 | R22 |
| HMC1265-R33M | 0.33 | 20 | 100KHz,1V | 0.56(0.8) | 70.0 | 38.0 | Fig2 | R33 |
| HMC1265-R47M | 0.47 | 20 | 100KHz,1V | 0.85(1.3) | 60.0 | 35.0 | Fig2 | R47 |
| HMC1265-R68M | 0.68 | 20 | 100KHz,1V | 1.3(1.5) | 51.0 | 30.0 | Fig2 | R68 |
| HMC1265-1R0M | 1.0 | 20 | 100KHz,1V | 1.5(2.0) | 50.0 | 30.0 | Fig2 | 1R0 |
| HMC1265-2R2M | 2.2 | 20 | 100KHz,1V | 3.5(4.5) | 35.0 | 18.0 | Fig2 | 2R2 |
| HMC1265-3R3M | 3.3 | 20 | 100KHz,1V | 5.8(7.5) | 25.0 | 17.0 | Fig1 | 3R3 |
| HMC1265-4R7M | 4.7 | 20 | 100KHz,1V | 6.5(9.0) | 22.0 | 14.0 | Fig1 | 4R7 |
| HMC1265-5R6M | 5.6 | 20 | 100KHz,1V | 9.5(12.0) | 19.0 | 12.0 | Fig1 | 5R6 |
| HMC1265-6R8M | 6.8 | 20 | 100KHz,1V | 11.0(14.0) | 18.0 | 11.5 | Fig1 | 6R8 |
| HMC1265-100M | 10 | 20 | 100KHz,1V | 16.0(20.0) | 15.5 | 10.0 | Fig1 | 100 |
| HMC1265-150M | 15 | 20 | 100KHz,1V | 27.5(30.0) | 12.0 | 7.0 | Fig1 | 150 |
| HMC1265-220M | 22 | 20 | 100KHz,1V | 30.0(36.0) | 9.0 | 6.0 | Fig1 | 220 |
| HMC1265-330M | 33 | 20 | 100KHz,1V | 48.0(55.0) | 8.0 | 5.0 | Fig1 | 330 |
| HMC1265-470M | 47 | 20 | 100KHz,1V | 67.0(80.0) | 6.0 | 4.0 | Fig1 | 470 |
| HMC1265-680M | 68 | 20 | 100KHz,1V | 94.0(115) | 5.0 | 3.0 | Fig1 | 680 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Molding Power Choke - HMC1704 Series

HMC1704 series Electrical Characteristics

| Part No. | Inductance (μ H) | Tolerance (\pm %) | Test Freq. | RDC(m Ω) Typ.(Max) | Isat (Amps) | Irms (Amps) | Shape | Marking |
|--------------|--------------------------|-------------------------|------------|-------------------------------|----------------|----------------|-------|---------|
| HMC1704-R33M | 0.33 | 20 | 100KHz, 1V | 1.16(1.28) | 60.0 | 56.0 | Fig1 | R33 |
| HMC1704-1R5M | 1.5 | 20 | 100KHz, 1V | 4.1(4.5) | 32.0 | 18.0 | Fig1 | 1R5 |
| HMC1704-5R6M | 5.6 | 20 | 100KHz, 1V | 10.4(13.5) | 21.0 | 15.0 | Fig1 | 5R6 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate Δ T of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V



Molding Power Choke - HMC1707 Series

HMC1707 series Electrical Characteristics

| Part No. | Inductance | Tolerance | Test Freq. | RDC(mΩ) | Isat | Irms | Shape | Marking |
|--------------|------------|-----------|------------|------------|--------|--------|-------|---------|
| | (uH) | (±%) | | Typ.(Max) | (Amps) | (Amps) | | |
| HMC1707-R47M | 0.47 | 20 | 100KHz,1V | 1.0(1.3) | 70.0 | 35.0 | Fig1 | R47 |
| HMC1707-1R0M | 1.0 | 20 | 100KHz,1V | 1.2(1.5) | 60.0 | 28.0 | Fig1 | 1R0 |
| HMC1707-1R5M | 1.5 | 20 | 100KHz,1V | 1.8(2.5) | 50.0 | 25.0 | Fig1 | 1R5 |
| HMC1707-2R2M | 2.2 | 20 | 100KHz,1V | 2.0(3.0) | 40.0 | 20.0 | Fig1 | 2R2 |
| HMC1707-3R3M | 3.3 | 20 | 100KHz,1V | 2.8(3.5) | 34.0 | 19.0 | Fig1 | 3R3 |
| HMC1707-4R7M | 4.7 | 20 | 100KHz,1V | 4.2(5.0) | 28.0 | 17.5 | Fig1 | 4R7 |
| HMC1707-6R8M | 6.8 | 20 | 100KHz,1V | 6.5(7.5) | 24.0 | 13.0 | Fig1 | 6R8 |
| HMC1707-8R2M | 8.2 | 20 | 100KHz,1V | 8.2(10.0) | 22.0 | 12.5 | Fig1 | 8R2 |
| HMC1707-100M | 10 | 20 | 100KHz,1V | 9.0(13.0) | 21.0 | 12.0 | Fig1 | 100 |
| HMC1707-150M | 15 | 20 | 100KHz,1V | 14.5(18.0) | 18.0 | 11.0 | Fig1 | 150 |
| HMC1707-220M | 22 | 20 | 100KHz,1V | 20.5(25.0) | 13.0 | 10.0 | Fig1 | 220 |
| HMC1707-330M | 33 | 20 | 100KHz,1V | 30.0(42.0) | 10.0 | 7.0 | Fig1 | 330 |
| HMC1707-470M | 47 | 20 | 100KHz,1V | 41.0(52.0) | 9.0 | 6.0 | Fig1 | 470 |
| HMC1704-680M | 68 | 20 | 100KHz,1V | 50.0(85.0) | 6.5 | 5.2 | Fig1 | 680 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- All test data is referenced to 25°C ambient
- Operating Temperature Range -55°C to +150°C
- Irms : DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause Lo to drop approximately 30%
- Test frequency: 100KHz, 1.0V

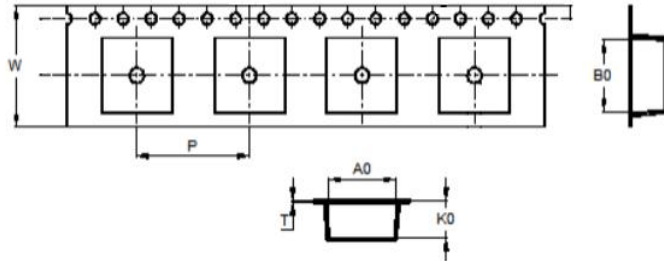
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



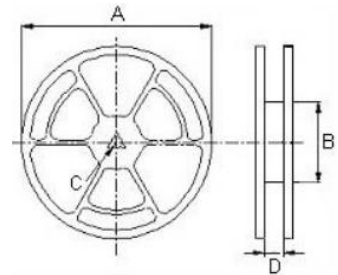
Molding Power Choke - HMC Series

Packaging Specifications

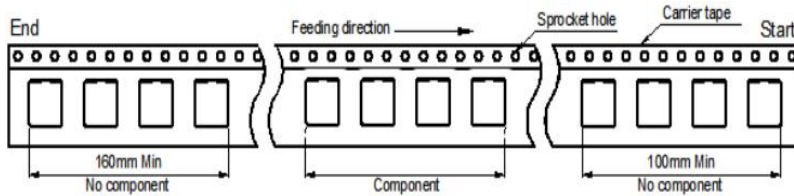
Tape Dimensions



Reel Dimensions



Tape Material



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | Reel Dimensions | | | | Quantity PCS/REEL |
|---------|-----------------|-------|------|----|------|------|-----------------|-----|----|----|----------------------|
| | A0 | B0 | K0 | W | P | T | A | B | C | D | |
| HMC0315 | 3.40 | 3.80 | 2.2 | 12 | 8.0 | 0.3 | 178 | 60 | 13 | 12 | 1000 |
| HMC0302 | 3.40 | 3.80 | 2.2 | 12 | 8.0 | 0.3 | 178 | 60 | 13 | 12 | 1000 |
| HMC0412 | 4.40 | 5.20 | 1.5 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 12 | 3000 |
| HMC0415 | 4.40 | 5.20 | 1.70 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 12 | 3000 |
| HMC0402 | 4.40 | 5.20 | 2.20 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 12 | 3000 |
| HMC0403 | 5.40 | 6.00 | 3.20 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 12 | 2500 |
| HMC0515 | 5.40 | 6.00 | 1.70 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 16 | 3000 |
| HMC0518 | 5.40 | 6.00 | 2.20 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 16 | 3000 |
| HMC0502 | 5.40 | 6.00 | 2.20 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 16 | 3000 |
| HMC0503 | 5.40 | 6.00 | 3.20 | 12 | 8.0 | 0.3 | 330 | 100 | 13 | 16 | 2500 |
| HMC0615 | 7.00 | 7.80 | 1.70 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 2000 |
| HMC0618 | 7.00 | 7.80 | 2.30 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 2000 |
| HMC0602 | 7.00 | 7.80 | 2.30 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 2000 |
| HMC0624 | 7.00 | 7.80 | 2.60 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 2000 |
| HMC0603 | 7.00 | 7.80 | 3.20 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 1500 |
| HMC0604 | 7.00 | 7.80 | 4.20 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 1000 |
| HMC0605 | 7.00 | 7.80 | 5.20 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 1000 |
| HMC0705 | 8.80 | 9.20 | 5.20 | 16 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 1000 |
| HMC0803 | 8.40 | 10.20 | 3.50 | 24 | 12.0 | 0.35 | 330 | 100 | 13 | 16 | 1000 |
| HMC0804 | 8.40 | 10.20 | 4.50 | 24 | 12.0 | 0.35 | 330 | 100 | 13 | 24 | 1000 |
| HMC1003 | 10.70 | 12.00 | 3.20 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 1000 |
| HMC1004 | 10.70 | 12.00 | 4.50 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 1000 |
| HMC1005 | 10.70 | 12.00 | 5.20 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 800 |
| HMC1235 | 13.30 | 14.80 | 3.80 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 800 |
| HMC1205 | 13.30 | 14.80 | 5.30 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 500 |
| HMC1265 | 13.30 | 14.80 | 6.80 | 24 | 16.0 | 0.35 | 330 | 100 | 13 | 24 | 500 |
| HMC1704 | 17.80 | 18.40 | 4.65 | 32 | 24.0 | 0.35 | 330 | 100 | 13 | 33 | 500 |
| HMC1707 | 17.40 | 18.80 | 7.60 | 32 | 24.0 | 0.35 | 330 | 100 | 13 | 33 | 300 |