



PRODUCT BRIEF

EPCOS SMD Power Inductors

SMD Power Inductors: Series B8247*A1, B8247*G1, B8247*G2, B8247*G4, B8247*G6

| Kit: B8247XX1 | Data Sheet Link | Tolerance | f_L (MHz) | I_R (A) | I_{sat} (A) | R_{max} Ω |
|---------------------------------|---------------------------|-----------|-------------|-----------|---------------|--------------------|
| Kit Components: | | | | | | |
| B82471A1103M | DataSheet | ±20% | 0.1 | 1.44 | 1.800 | 0.10 |
| B82471A1153M000 | DataSheet | ±20% | 0.1 | 1.30 | 1.45 | 0.14 |
| B82471A1223M000 | DataSheet | ±20% | 0.1 | 1.11 | 1.20 | 0.18 |
| B82471A1333M000 | DataSheet | ±20% | 0.1 | 0.88 | 1.0 | 0.23 |
| B82471A1473M000 | DataSheet | ±20% | 0.1 | 0.72 | 0.85 | 0.37 |
| B82471A1683K000 | DataSheet | ±20% | 0.1 | 0.61 | 0.70 | 0.46 |
| B82471A1104K | DataSheet | ±10% | 0.1 | 0.52 | 0.60 | 0.70 |
| B82471A1154K000 | DataSheet | ±10% | 0.1 | 0.40 | 0.48 | 1.10 |
| B82471A1224K | DataSheet | ±10% | 0.1 | 0.35 | 0.38 | 1.57 |
| B82472G4102M | DataSheet | ±20% | 0.1 | 3.45 | 2.900 | 0.018 |
| B82472G4152M | DataSheet | ±20% | 0.1 | 3.35 | 2.600 | 0.02 |
| B82472G4222M | DataSheet | ±20% | 0.1 | 2.90 | 2.200 | 0.025 |
| B82472G4332M | DataSheet | ±20% | 0.1 | 2.60 | 1.900 | 0.035 |
| B82472G4472M | DataSheet | ±20% | 0.1 | 2.30 | 1.700 | 0.043 |
| B82472G4682M | DataSheet | ±20% | 0.1 | 2.05 | 1.400 | 0.055 |
| B82472G4103M | DataSheet | ±20% | 0.1 | 1.70 | 1.34 | 0.08 |
| B82472G4153M000 | DataSheet | ±20% | 0.1 | 1.40 | 1.10 | 0.12 |
| B82472G4223M | DataSheet | ±20% | 0.1 | 1.10 | 0.90 | 0.20 |
| B82472G4333M | DataSheet | ±20% | 0.1 | 0.94 | 0.72 | 0.25 |
| B82472G4473M | DataSheet | ±20% | 0.1 | 0.86 | 0.65 | 0.30 |
| B82472G4563M | DataSheet | ±20% | 0.1 | 0.84 | 0.63 | 0.31 |
| B82472G4683M000 | DataSheet | ±20% | 0.1 | 0.69 | 0.60 | 0.46 |
| B82472G4104M | DataSheet | ±20% | 0.1 | 0.56 | 0.45 | 0.70 |
| B82472G4154M | DataSheet | ±20% | 0.1 | 0.49 | 0.35 | 0.80 |
| B82472G4184M | DataSheet | ±20% | 0.1 | 0.47 | 0.32 | 0.95 |
| B82472G4224M | DataSheet | ±20% | 0.1 | 0.40 | 0.30 | 1.10 |
| B82472G4334M | DataSheet | ±20% | 0.1 | 0.29 | 0.26 | 1.98 |
| B82472G4474M | DataSheet | ±20% | 0.1 | 0.26 | 0.24 | 2.70 |

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|---------------------------------|---------------------------|------|-----|------|------|-------|
| B82472G4684M | DataSheet | ±20% | 0.1 | 0.23 | 0.19 | 3.65 |
| B82472G4824M | DataSheet | ±20% | 0.1 | 0.20 | 0.17 | 3.90 |
| B82472G4105M | DataSheet | ±20% | 0.1 | 0.18 | 0.13 | 4.78 |
| B82472G6102M | DataSheet | ±20% | 0.1 | 3.60 | 3.30 | 0.015 |
| B82472G6152M000 | DataSheet | ±20% | 0.1 | 3.40 | 3.00 | 0.017 |
| B82472G6222M000 | DataSheet | ±20% | 0.1 | 3.00 | 2.80 | 0.20 |
| B82472G6332M000 | DataSheet | ±20% | 0.1 | 2.85 | 2.50 | 0.023 |
| B82472G6472M000 | DataSheet | ±20% | 0.1 | 2.50 | 2.00 | 0.03 |
| B82472G6682M000 | DataSheet | ±20% | 0.1 | 2.15 | 1.70 | 0.04 |
| B82472G6103M | DataSheet | ±20% | 0.1 | 1.90 | 1.40 | 0.053 |
| B82472G6153M000 | DataSheet | ±20% | 0.1 | 1.53 | 1.35 | 0.08 |
| B82472G6223M000 | DataSheet | ±20% | 0.1 | 1.45 | 1.30 | 0.091 |
| B82472G6333M000 | DataSheet | ±20% | 0.1 | 1.15 | 1.05 | 0.15 |
| B82472G6473M000 | DataSheet | ±20% | 0.1 | 1.00 | 0.90 | 0.20 |
| B82472G6683M000 | DataSheet | ±20% | 0.1 | 0.82 | 0.68 | 0.26 |
| B82472G6104M | DataSheet | ±20% | 0.1 | 0.67 | 0.55 | 0.39 |
| B82472G6154M000 | DataSheet | ±20% | 0.1 | 0.53 | 0.43 | 0.58 |
| B82472G6224M000 | DataSheet | ±20% | 0.1 | 0.43 | 0.36 | 0.88 |
| B82472G6334M000 | DataSheet | ±20% | 0.1 | 0.33 | 0.30 | 1.70 |
| B82472G6474M000 | DataSheet | ±20% | 0.1 | 0.29 | 0.25 | 2.00 |
| B82472G6684M000 | DataSheet | ±20% | 0.1 | 0.25 | 0.20 | 2.75 |
| B82472G6824M | DataSheet | ±20% | 0.1 | 0.24 | 0.23 | 3.30 |
| B82472G6105M | DataSheet | ±20% | 0.1 | 0.20 | 0.15 | 3.85 |
| B82473A1103K | DataSheet | ±10% | 0.1 | 2.30 | 2.50 | 0.07 |
| B82473A1153K000 | DataSheet | ±10% | 0.1 | 1.80 | 2.00 | 0.09 |
| B82473A1223K | DataSheet | ±10% | 0.1 | 1.50 | 1.60 | 0.11 |
| B82473A1333K000 | DataSheet | ±10% | 0.1 | 1.20 | 1.30 | 0.13 |
| B82473A1473K000 | DataSheet | ±10% | 0.1 | 1.10 | 1.20 | 0.18 |
| B82473A1683K000 | DataSheet | ±10% | 0.1 | 0.85 | 0.90 | 0.28 |
| B82473A1104K | DataSheet | ±10% | 0.1 | 0.72 | 0.80 | 0.43 |
| B82473A1154K000 | DataSheet | ±10% | 0.1 | 0.58 | 0.65 | 0.64 |
| B82473A1224K | DataSheet | ±10% | 0.1 | 0.49 | 0.55 | 0.96 |
| B82473A1334K000 | DataSheet | ±10% | 0.1 | 0.40 | 0.45 | 1.26 |
| B82473A1474K | DataSheet | ±10% | 0.1 | 0.34 | 0.40 | 1.96 |
| B82475A1103M000 | DataSheet | ±20% | 0.1 | 2.60 | 2.75 | 0.06 |
| B82475A1153M000 | DataSheet | ±20% | 0.1 | 2.27 | 2.35 | 0.08 |
| B82475A1223M000 | DataSheet | ±20% | 0.1 | 1.95 | 2.00 | 0.10 |
| B82475A1333M000 | DataSheet | ±20% | 0.1 | 1.50 | 1.60 | 0.12 |
| B82475A1473K | DataSheet | ±10% | 0.1 | 1.28 | 1.35 | 0.17 |
| B82475A1683K000 | DataSheet | ±10% | 0.1 | 1.11 | 1.20 | 0.22 |
| B82475A1104K | DataSheet | ±10% | 0.1 | 0.97 | 1.00 | 0.35 |

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|---------------------------------|---------------------------|------|-------|------|------|--------|
| B82475A1154K000 | DataSheet | ±10% | 0.1 | 0.78 | 0.82 | 0.47 |
| B82475A1224K | DataSheet | ±10% | 0.1 | 0.66 | 0.70 | 0.73 |
| B82475A1334K | DataSheet | ±10% | 0.1 | 0.52 | 0.55 | 1.15 |
| B82475A1474K | DataSheet | ±10% | 0.1 | 0.42 | 0.45 | 1.48 |
| B82475A1684K | DataSheet | ±10% | 0.1 | 0.28 | 0.30 | 2.25 |
| B82476A1102M | DataSheet | ±20% | 0.1 | 6.80 | 9.00 | 0.008 |
| B82476A1152M | DataSheet | ±20% | 0.1 | 6.40 | 8.00 | 0.009 |
| B82476A1222M | DataSheet | ±20% | 0.1 | 6.10 | 7.00 | 0.0105 |
| B82476A1332M | DataSheet | ±20% | 0.1 | 5.40 | 6.40 | 0.0135 |
| B82476A1472M | DataSheet | ±20% | 0.1 | 4.80 | 5.40 | 0.0165 |
| B82476A1682M | DataSheet | ±20% | 0.1 | 4.40 | 4.60 | 0.021 |
| B82476A1103M | DataSheet | ±20% | 0.1 | 3.90 | 3.80 | 0.027 |
| B82476A1153M | DataSheet | ±20% | 0.1 | 3.10 | 3.00 | 0.04 |
| B82476A1223M | DataSheet | ±20% | 0.1 | 2.70 | 2.60 | 0.05 |
| B82476A1333M | DataSheet | ±20% | 0.1 | 2.10 | 2.00 | 0.088 |
| B82476A1473M | DataSheet | ±20% | 0.1 | 1.80 | 1.60 | 0.12 |
| B82476A1683M | DataSheet | ±20% | 0.1 | 1.50 | 1.40 | 0.16 |
| B82476A1104M | DataSheet | ±20% | 0.1 | 1.30 | 1.20 | 0.23 |
| B82476A1154M | DataSheet | ±20% | 0.1 | 1.00 | 1.00 | 0.33 |
| B82476A1224M | DataSheet | ±20% | 0.1 | 0.80 | 0.80 | 0.53 |
| B82476A1334M | DataSheet | ±20% | 0.1 | 0.60 | 0.60 | 0.81 |
| B82476A1474M | DataSheet | ±20% | 0.1 | 0.50 | 0.50 | 1.10 |
| B82476A1684M | DataSheet | ±20% | 0.1 | 0.30 | 0.30 | 2.15 |
| B82476A1105M | DataSheet | ±20% | 0.1 | 0.30 | 0.30 | 2.15 |
| B82477G2102M | DataSheet | ±20% | 0.001 | 9.00 | ~ | 0.009 |
| B82477G2132M | DataSheet | ±20% | 0.001 | 8.70 | ~ | 0.010 |
| B82477G2222M | DataSheet | ±20% | 0.001 | 7.00 | ~ | 0.014 |
| B82477G2332M000 | DataSheet | ±20% | 0.001 | 6.00 | ~ | 0.017 |
| B82477G2472M | DataSheet | ±20% | 0.001 | 5.00 | ~ | 0.020 |
| B82477G2682M000 | DataSheet | ±20% | 0.001 | 4.40 | ~ | 0.022 |
| B82477G2752M | DataSheet | ±20% | 0.001 | 4.20 | ~ | 0.023 |
| B82477G2103M | DataSheet | ±20% | 0.001 | 4.00 | ~ | 0.025 |
| B82477G2123M000 | DataSheet | ±20% | 0.001 | 3.50 | ~ | 0.027 |
| B82477G2153M000 | DataSheet | ±20% | 0.001 | 3.30 | ~ | 0.030 |
| B82477G2223M | DataSheet | ±20% | 0.001 | 2.80 | ~ | 0.036 |
| B82477G2333M000 | DataSheet | ±20% | 0.001 | 2.10 | ~ | 0.057 |
| B82477G2473M | DataSheet | ±20% | 0.001 | 1.80 | ~ | 0.075 |
| B82477G2683M000 | DataSheet | ±20% | 0.001 | 1.50 | ~ | 0.12 |
| B82477G2104M | DataSheet | ±20% | 0.001 | 1.30 | ~ | 0.16 |
| B82477G2154M000 | DataSheet | ±20% | 0.001 | 1.00 | ~ | 0.23 |
| B82477G2224M | DataSheet | ±20% | 0.001 | 0.80 | ~ | 0.40 |

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|---------------------------------|---------------------------|------|-------|------|------|--------|
| B82477G2334M000 | DataSheet | ±20% | 0.001 | 0.37 | ~ | 0.51 |
| B82477G2474M | DataSheet | ±20% | 0.001 | 0.58 | ~ | 0.77 |
| B82477G2684M000 | DataSheet | ±20% | 0.001 | 0.48 | ~ | 1.20 |
| B82477G2105M | DataSheet | ±20% | 0.001 | 0.40 | ~ | 1.53 |
| B82477G4102M | DataSheet | ±20% | 0.1 | 9.80 | 15 | 0.007 |
| B82477G4222M | DataSheet | ±20% | 0.1 | 8.00 | 11 | 0.010 |
| B82477G4392M | DataSheet | ±20% | 0.1 | 7.50 | 9.5 | 0.0125 |
| B82477G4472M | DataSheet | ±20% | 0.1 | 6.80 | 8.6 | 0.014 |
| B82477G4562M000 | DataSheet | ±20% | 0.1 | 6.70 | 8.4 | 0.0142 |
| B82477G4682M | DataSheet | ±20% | 0.1 | 6.50 | 7.3 | 0.0185 |
| B82477G4103M | DataSheet | ±20% | 0.1 | 5.40 | 6.4 | 0.022 |
| B82477G4153M | DataSheet | ±20% | 0.1 | 4.50 | 5.25 | 0.027 |
| B82477G4223M | DataSheet | ±20% | 0.1 | 3.60 | 4.25 | 0.038 |
| B82477G4333M | DataSheet | ±20% | 0.1 | 3.00 | 3.50 | 0.053 |
| B82477G4473M | DataSheet | ±20% | 0.1 | 2.50 | 3.00 | 0.082 |
| B82477G4473M003 | DataSheet | ±20% | 0.1 | 2.50 | 3.00 | 0.082 |
| B82477G4683M | DataSheet | ±20% | 0.1 | 2.10 | 2.45 | 0.12 |
| B82477G4823M | DataSheet | ±20% | 0.1 | 1.90 | 2.25 | 0.145 |
| B82477G4104M | DataSheet | ±20% | 0.1 | 1.70 | 1.95 | 0.165 |
| B82477G4154M | DataSheet | ±20% | 0.1 | 1.42 | 1.70 | 0.225 |
| B82477G4224M | DataSheet | ±20% | 0.1 | 1.16 | 1.35 | 0.38 |
| B82477G4334M | DataSheet | ±20% | 0.1 | 0.95 | 1.15 | 0.60 |
| B82477G4474M | DataSheet | ±20% | 0.1 | 0.80 | 0.95 | 0.79 |
| B82477G4684M | DataSheet | ±20% | 0.1 | 0.68 | 0.78 | 1.24 |
| B82477G4105M | DataSheet | ±20% | 0.1 | 0.55 | 0.65 | 1.68 |
| B82479A1102M | DataSheet | ±20% | 0.1 | 8.60 | 20 | 0.011 |
| B82479A1222M | DataSheet | ±20% | 0.1 | 7.10 | 16 | 0.014 |
| B82479A1332M000 | DataSheet | ±20% | 0.1 | 6.20 | 14 | 0.016 |
| B82479A1562M | DataSheet | ±20% | 0.1 | 5.30 | 12 | 0.022 |
| B82479A1103M | DataSheet | ±20% | 0.1 | 4.30 | 10 | 0.032 |
| B82479A1153M000 | DataSheet | ±20% | 0.1 | 4.00 | 8.00 | 0.036 |
| B82479A1223M | DataSheet | ±20% | 0.1 | 3.50 | 7.00 | 0.047 |
| B82479A1333M | DataSheet | ±20% | 0.1 | 3.00 | 5.50 | 0.066 |
| B82479A1473M | DataSheet | ±20% | 0.1 | 2.60 | 4.50 | 0.087 |
| B82479A1683M000 | DataSheet | ±20% | 0.1 | 2.30 | 3.50 | 0.13 |
| B82479A1104M | DataSheet | ±20% | 0.1 | 1.80 | 3.00 | 0.19 |
| B82479A1154M000 | DataSheet | ±20% | 0.1 | 1.50 | 2.60 | 0.25 |
| B82479A1224M | DataSheet | ±20% | 0.1 | 1.20 | 2.40 | 0.38 |
| B82479A1334M | DataSheet | ±20% | 0.1 | 1.00 | 1.90 | 0.56 |
| B82479A1474M | DataSheet | ±20% | 0.1 | 0.82 | 1.40 | 0.85 |
| B82479A1684M000 | DataSheet | ±20% | 0.1 | 0.72 | 1.20 | 1.20 |

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|---------------------------------|---------------------------|------|-----|------|------|-------|
| B82479A1105M | DataSheet | ±20% | 0.1 | 0.56 | 1.00 | 1.80 |
| B82479G1103M000 | DataSheet | ±20% | 0.1 | 3.90 | 8.00 | 0.04 |
| B82479G1153M | DataSheet | ±20% | 0.1 | 3.40 | 7.00 | 0.048 |
| B82479G1223M | DataSheet | ±20% | 0.1 | 3.10 | 6.00 | 0.059 |
| B82479G1333M | DataSheet | ±20% | 0.1 | 2.80 | 5.00 | 0.075 |
| B82479G1473M000 | DataSheet | ±20% | 0.1 | 2.40 | 4.00 | 0.097 |
| B82479G1683M | DataSheet | ±20% | 0.1 | 2.00 | 3.00 | 0.138 |
| B82479G1104M000 | DataSheet | ±20% | 0.1 | 1.70 | 2.40 | 0.207 |
| B82479G1154M | DataSheet | ±20% | 0.1 | 1.30 | 2.10 | 0.293 |
| B82479G1224M000 | DataSheet | ±20% | 0.1 | 1.10 | 1.90 | 0.47 |
| B82479G1334M | DataSheet | ±20% | 0.1 | 0.86 | 1.20 | 0.78 |
| B82479G1474M | DataSheet | ±20% | 0.1 | 0.73 | 1.10 | 1.08 |
| B82479G1684M | DataSheet | ±20% | 0.1 | 0.64 | 0.96 | 1.40 |
| B82479G1105M | DataSheet | ±20% | 0.1 | 0.53 | 0.8 | 2.01 |

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