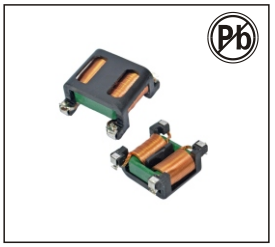
SMD HIGH CURRENT FLAT WIRE COMMON MODE CHOKE

SQS1212 SERIES



FEATURES:

- Compact size, low DCR, low leakage due to square core.
- High permeability material, High impedance at low frequency.
- High attenuation to noise, due to low stray capacitance.
- Flammability tested to UL 94 V–0.
- Low cost, high consistency with automated production.
- RoHS, REACH compliance, Halogen free available.

APPLICATIONS:

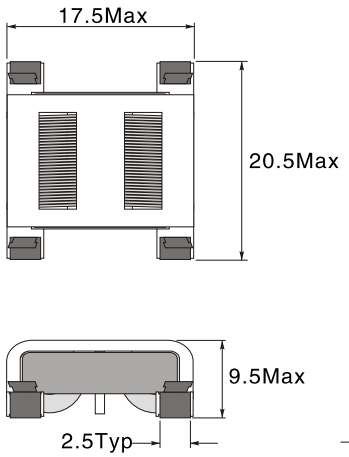
- Solutions for use in a wide array of power supply circuits.
- High desity switching mode power supply devices.
- Ideal for use in consumer electroinics and industrial applications: LCD TV, Battery chargers, Power Adapter, Home appliances.
- Space saving for existing Common Mode Chokes.

ELECTRICAL CHARACTERISTICS:

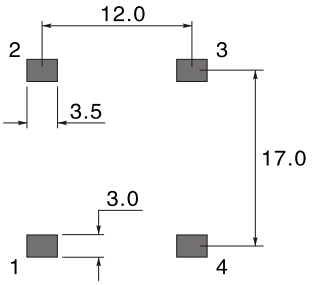
Part Number	Inductance (mH)Min	Common mode peak impedance (kΩ)	Leakage inductance (uH)Max	DCR (mΩ) Max	Rated current (A)Max
SQS1212–801Y	0.8	9.06@3.73MHz	80	25	3.6
SQS1212–102Y	1.0	14.12@2.9MHz	100	36	3.0
SQS1212–152Y	1.5	22.67@2.15MHz	115	52	2.5
SQS1212–252Y	2.5	31.51@2.48MHz	130	95	1.8
SQS1212–302Y	3.0	44.31@2.31MHz	130	115	1.5
SQS1212–362Y	3.6	47.1@1.96MHz	140	158	1.2
SQS1212–502Y	5.0	66.55@1.84MHz	150	216	1.0
SQS1212–682Y	6.8	81.25@1.32MHz	180	315	0.8
SQS1212–952Y	9.5	123.34@0.95MHz	210	500	0.6

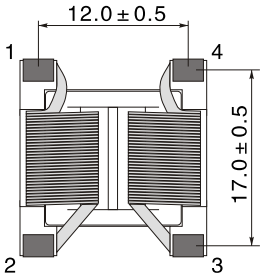
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



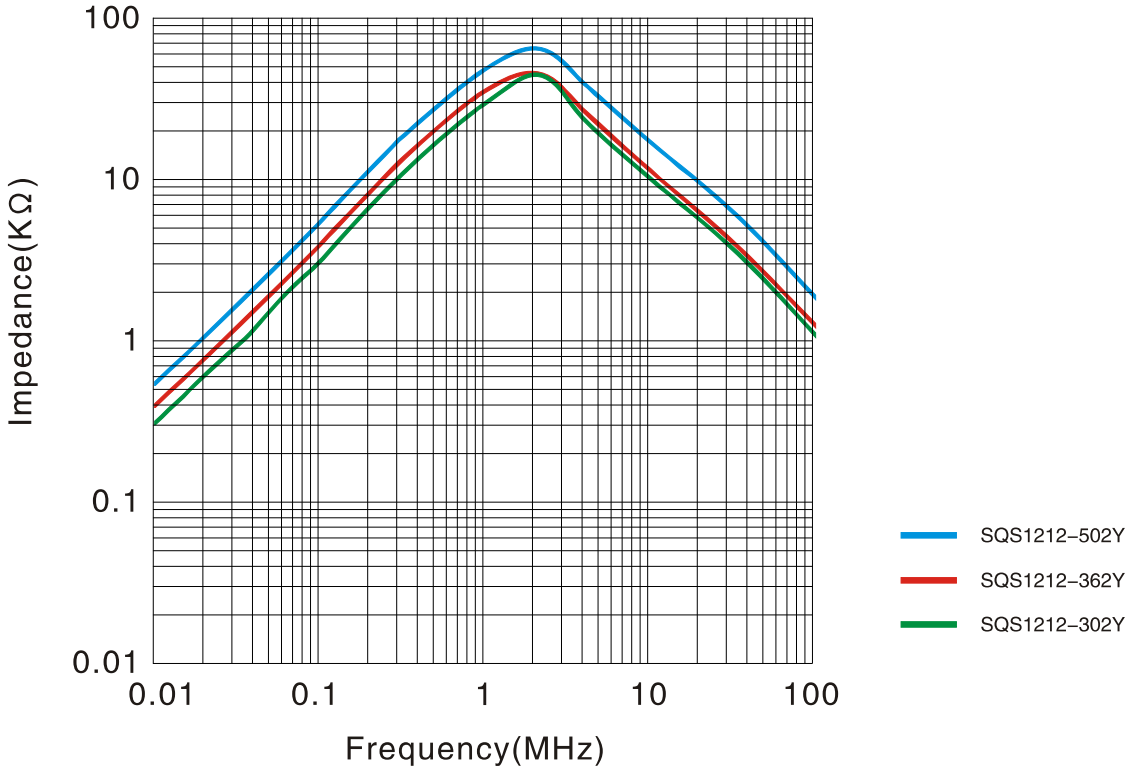
LAND PATTERNS

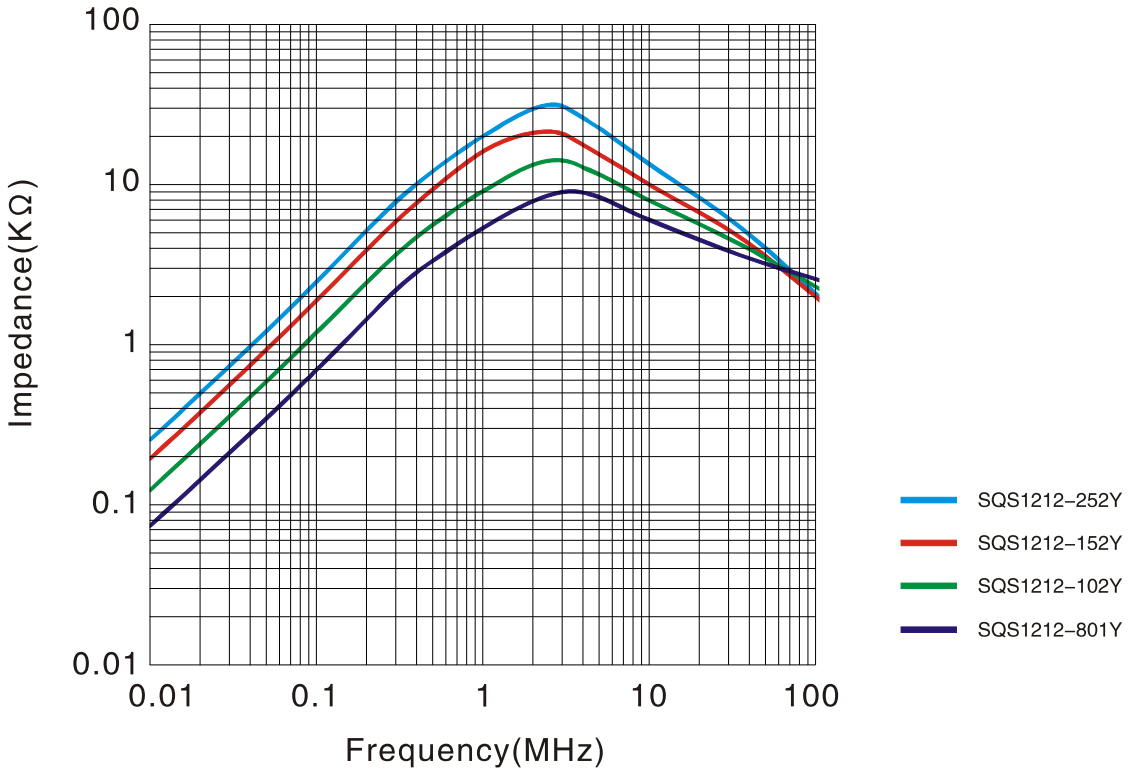




- Inductor Testing: HP4284A (Equivalent acceptable) DCR:QuadTech 1880 Milliohmmeter
- Rated voltage: 80VAC– 280VAC
- High withstanding voltage between windings:2400VAC /60 sec.
- High Insulation resistance 100MΩ Min@ 500VDC between windings.
- Operating temperature:–40℃~+125℃ (Including coil temperature rise).
- Storage temperature:– 40℃~ +85℃.
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL–STD–202E

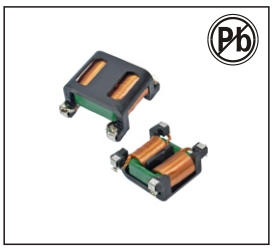
IMPEDANCE VS FREQUENCY:





SMD HIGH CURRENT FLAT WIRE COMMON MODE CHOKE

SQS1212HP SERIES



FEATURES:

- Compact size, low DCR, low leakage due to square core.
- High permeability material, High impedance at low frequency.
- High attenuation to noise, due to low stray capacitance.
- Flammability tested to UL 94 V–0.
- Low cost, high consistency with automated production.
- RoHS, REACH compliance, Halogen free available.

APPLICATIONS:

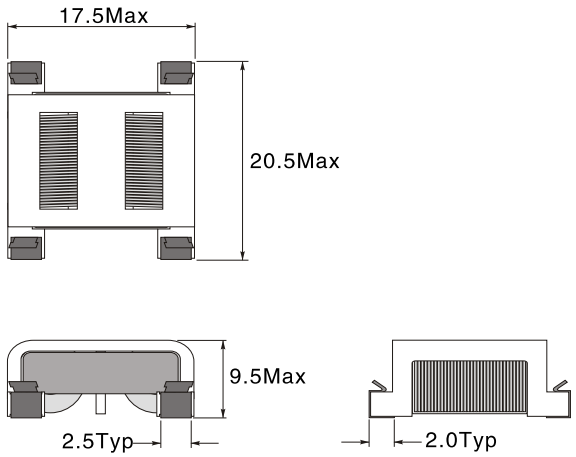
- Solutions for use in a wide array of power supply circuits.
- High desity switching mode power supply devices.
- Ideal for use in consumer electroinics and industrial applications: LCD TV, Battery chargers, Power Adapter, Home appliances.
- Space saving for existing Common Mode Chokes.

ELECTRICAL CHARACTERISTICS:

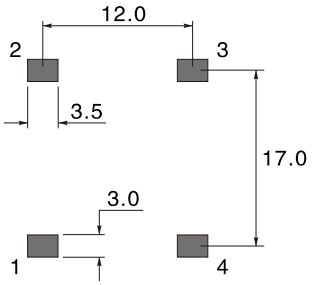
Part Number	Inductance (mH)Min	Common mode peak impedance (kΩ)	Leakage inductance (uH)Max	DCR (mΩ) Max	Rated current (A)Max
SQS1212HP–182Y	1.8	5.98@2.69MHz	120	25	3.6
SQS1212HP–252Y	2.5	7.37@2.56MHz	130	36	3.0
SQS1212HP–362Y	3.6	11.72@2.34MHz	140	52	2.5
SQS1212HP–582Y	5.8	17.69@2.23MHz	160	95	1.8
SQS1212HP–702Y	7.0	19.62@2.15MHz	200	115	1.5
SQS1212HP–852Y	8.5	26.22@2.01MHz	200	158	1.2
SQS1212HP–123Y	12.0	32.44@1.55MHz	230	216	1.0
SQS1212HP–153Y	15.0	39.25@1.15MHz	280	315	0.8
SQS1212HP–223Y	22.0	57.64@0.85MHz	360	500	0.6

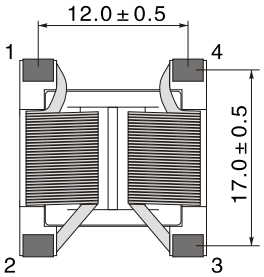
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

DIMENSIONS IN:mm



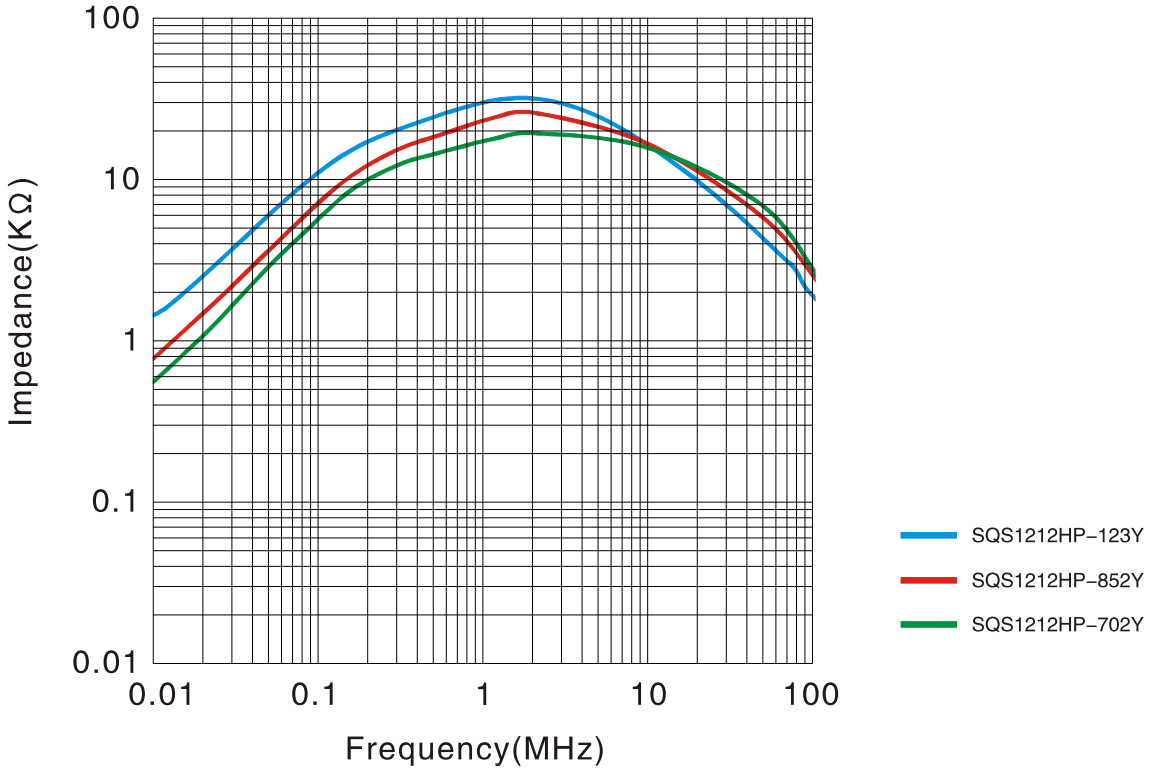
LAND PATTERNS

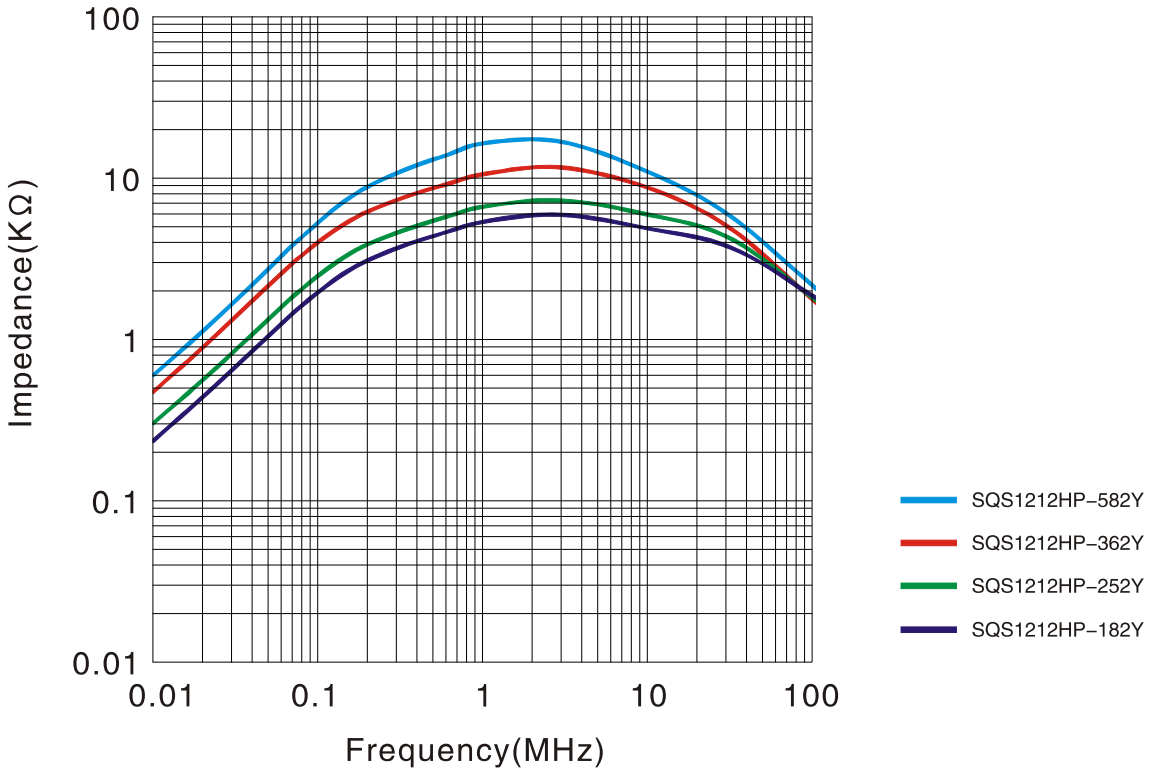


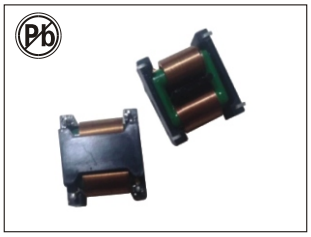


- Inductor Testing: HP4284A (Equivalent acceptable) DCR:QuadTech 1880 Milliohmmeter
- Rated voltage: 80VAC– 280VAC
- High withstanding voltage between windings:2400VAC /60 sec.
- High Insulation resistance 100MΩ Min@ 500VDC between windings.
- Operating temperature:–40℃~+125℃ (Including coil temperature rise).
- Storage temperature:– 40℃~ +85℃.
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL–STD–202E

IMPEDANCE VS FREQUENCY:







SMD Flat Common Mode Chokes

SQS1515A SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V–0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

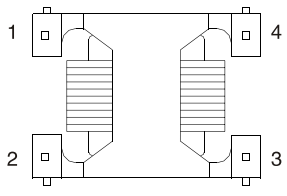
APPLICATION:

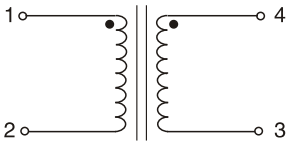
- Solutions for use in a wide array of power supply elreuits
- High desity switching mode power supply devices
- Ideal for use in consumer electroinics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

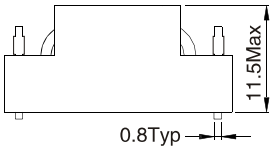
ELECTRICAL CHARACTERISTICS:

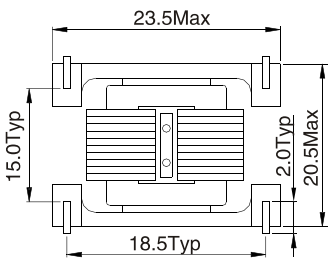
Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)
SQS1515A–203–1.5A	20.0	250	1.5–2.0
SQS1515A–153–1.8A	15.0	200	1.8–2.2
SQS1515A–153–2.0A	15.0	180	2.0–2.8
SQS1515A–103–2.0A	10.0	150	2.0–2.5
SQS1515A–103–2.5A	10.0	80	2.5–3.0
SQS1515A–502–2.5A	5.0	80	2.5–3.5
SQS1515A–302–3.5A	3.0	70	3.5–4.5
SQS1515A–202–5.0A	2.0	60	5.0–5.0

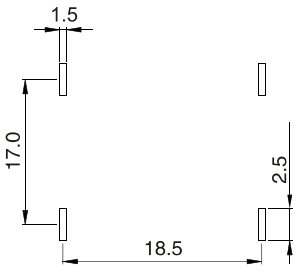
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:







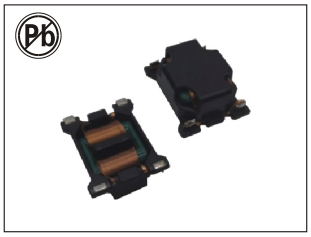




LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage .....80Vac~280Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature .....–25℃ to +125℃ Including coil temperature rise
- Storage temperature .....–25℃ to +100℃
- Hi–Pot..... 2400Vac/60Sec
- Insulation resistance.....100MΩMin@500Vdc
- Power range 60W–120W



SMD Flat Common Mode Chokes

SQS1515B SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V–0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

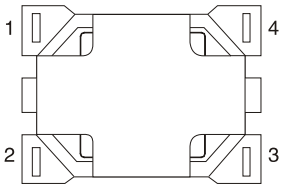
APPLICATION:

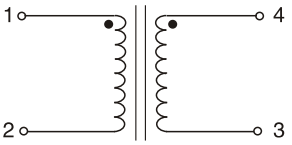
- Solutions for use in a wide array of power supply elreuits
- High desity switching mode power supply devices
- Ideal for use in consumer electroinics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

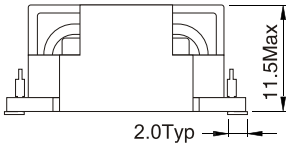
ELECTRICAL CHARACTERISTICS:

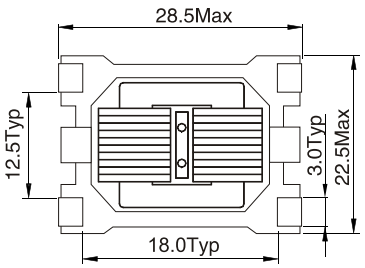
Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)
SQS1515B–203–1.5A	20.0	250	1.5–2.0
SQS1515B–153–1.8A	15.0	200	1.8–2.2
SQS1515B–153–2.0A	15.0	180	2.0–2.8
SQS1515B–103–2.0A	10.0	150	2.0–2.5
SQS1515B–103–2.5A	10.0	80	2.5–3.0
SQS1515B–502–2.5A	5.0	80	2.5–3.5
SQS1515B–302–3.5A	3.0	70	3.5–4.5
SQS1515B–202–5.0A	2.0	60	5.0–5.0

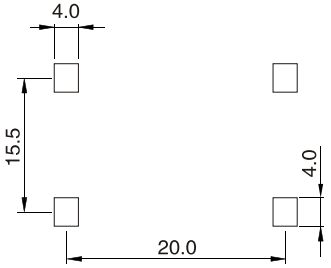
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:







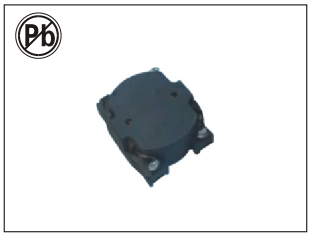




LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage .....80Vac~280Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature .....–25℃ to +125℃ Including coil temperature rise
- Storage temperature .....–25℃ to +100℃
- Hi–Pot..... 2400Vac/60Sec
- Insulation resistance.....100MΩMin@500Vdc
- Power range 60W–120W



SMD Flat Common Mode Chokes

SQS1918 SERIES

FEATURES:

- Compact size,low DCR,low leakage due to square core
- High permeability material,High impedance at low frequency
- High attenuation to noise,due to low stray capacitance
- Flammability tested to UL94V–0
- High withstanding voltage between winding
- High insulation resistance
- Low cost,high consistency with automated production
- RoHS,REACH compliance

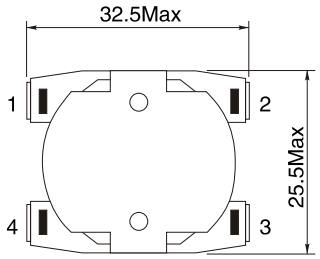
APPLICATION:

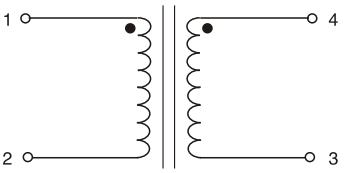
- Solutions for use in a wide array of power supply elreuits
- High desity switching mode power supply devices
- Ideal for use in consumer electroinics and industrial applications: LCD TV,Battery chargers,Power Adapter,Home appliances
- Space saving for existing Common Mode Chokes

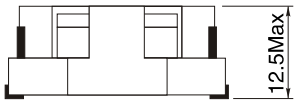
ELECTRICAL CHARACTERISTICS:

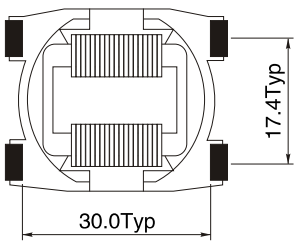
Part Number	Inductance Min. (mH).	DCR Max. (mΩ).	Rated current (A)
SQS1918–602–3.0A	6.0	100	3.0
SQS1918–123–2.0A	12.0	115	2.0
SQS1918–223–1.5A	22.0	159	1.5

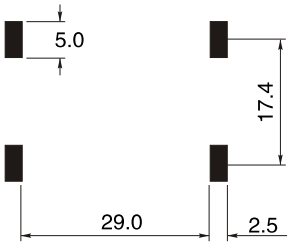
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:











LAND PATTERNS

Note:

- Test frequency 1.0KHz,0.25V
- Rated voltage .....80Vac~280Vac
- Insulation voltage 1.5KVac,60Sec
- Operating temperature .....–25℃ to +125℃
  Including coil temperature rise
- Storage temperature .....–25℃ to +100℃
- Hi–Pot..... 2400Vac/60Sec
- Insulation resistance.....100MΩMin@500Vdc