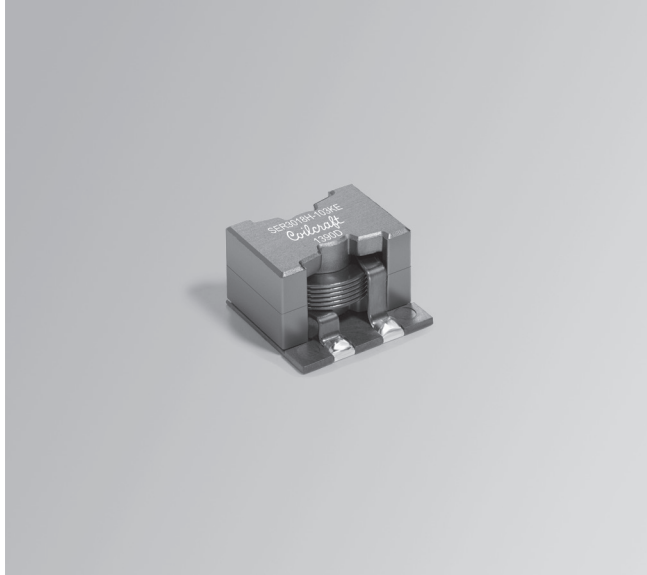




Shielded Power Inductors - SER3018H



- Same electrical specifications and land pattern as the SER2918H
- Mounting plate with three pads for excellent board adhesion
- Extremely low DCR; current handling up to 93.6 Amps

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 36.2 g

Ambient temperature -40°C to +85°C with (40°C rise) Irms current.

Maximum part temperature +125°C (ambient + temp rise). [Derating](#).

Storage temperature Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 25 pieces per tray

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±10% (µH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SER3018H-332KE	3.3	2.56	2.82	40	91.0	92.5	93.6	20	28
SER3018H-472KE	4.7	2.56	2.82	30	59.0	61.2	62.4	20	28
SER3018H-682KE	6.8	2.56	2.82	25	42.0	45.0	45.9	20	28
SER3018H-103KE	10	2.56	2.82	20	28.0	31.2	32.1	20	28
SER3018H-153KE	15	2.56	2.82	16	18.0	21.2	21.9	20	28
SER3018H-223KE	22	2.56	2.82	15	12.0	14.0	15.0	20	28
SER3018H-333KE	33	2.56	2.82	10	7.0	8.7	9.6	20	28

1. When ordering, please specify **termination** code:

SER3018H-333KE

Termination: E = Halogen free component. RoHS compliant matte tin over nickel over phos bronz.

Special order:

T = RoHS tin-silver-copper over copper(95.5/4/0.5) or

S = non-RoHS tin-lead (63/37).

2. Inductance measured at 500 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

3. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.

4. SRF measured using an Agilent/HP 4395A network analyzer and an Agilent/HP 16193A test fixture.

5. DC current at 25°C that causes the specified inductance drop from its value without current. [Click for temperature derating information](#).

6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. [Click for temperature derating information](#).

7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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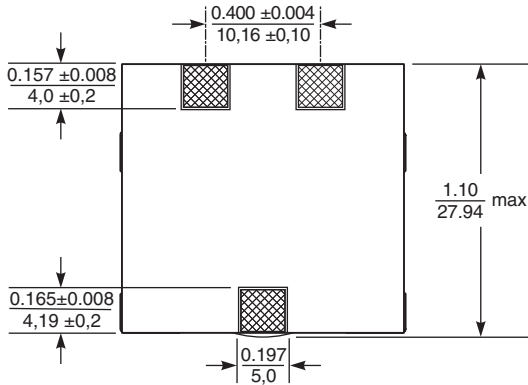
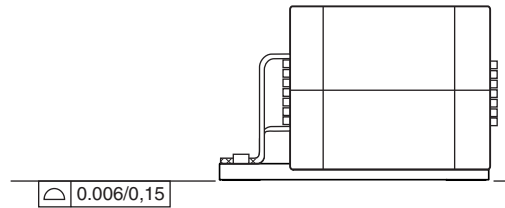
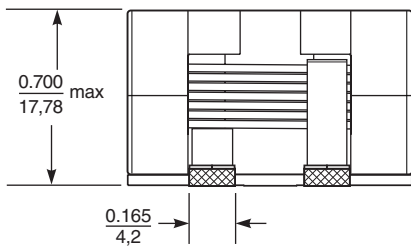
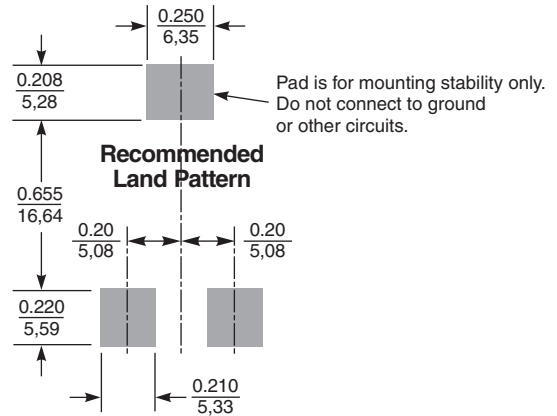
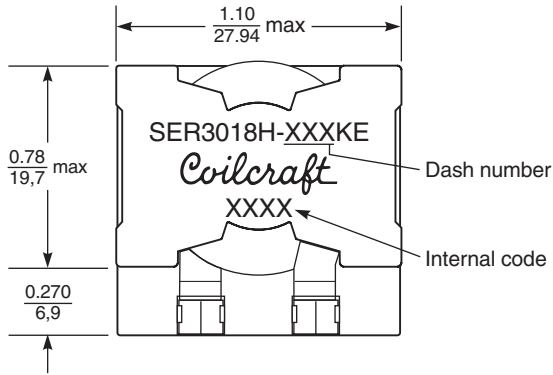
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



Shielded Power Inductors – SER3018H Series

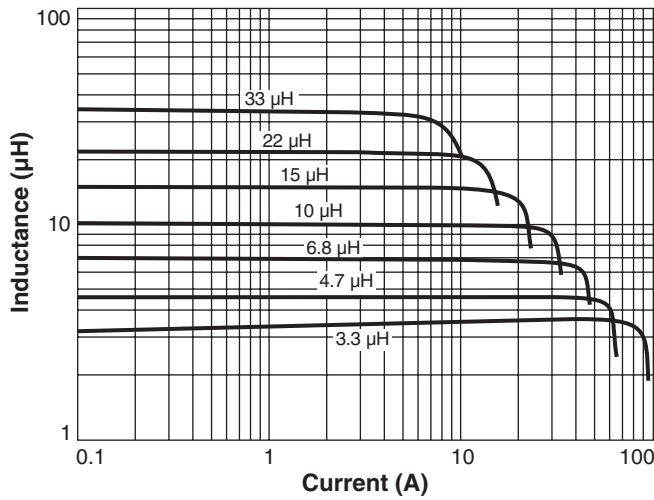


Dimensions are in inches/mm



Shielded Power Inductors – SER3018H Series

L vs Current



L vs Frequency

