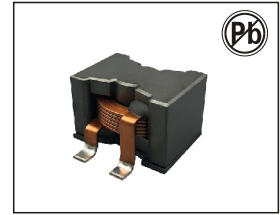


HIGH CURRENT POWER INDUCTORS SPQ2615A SERIES



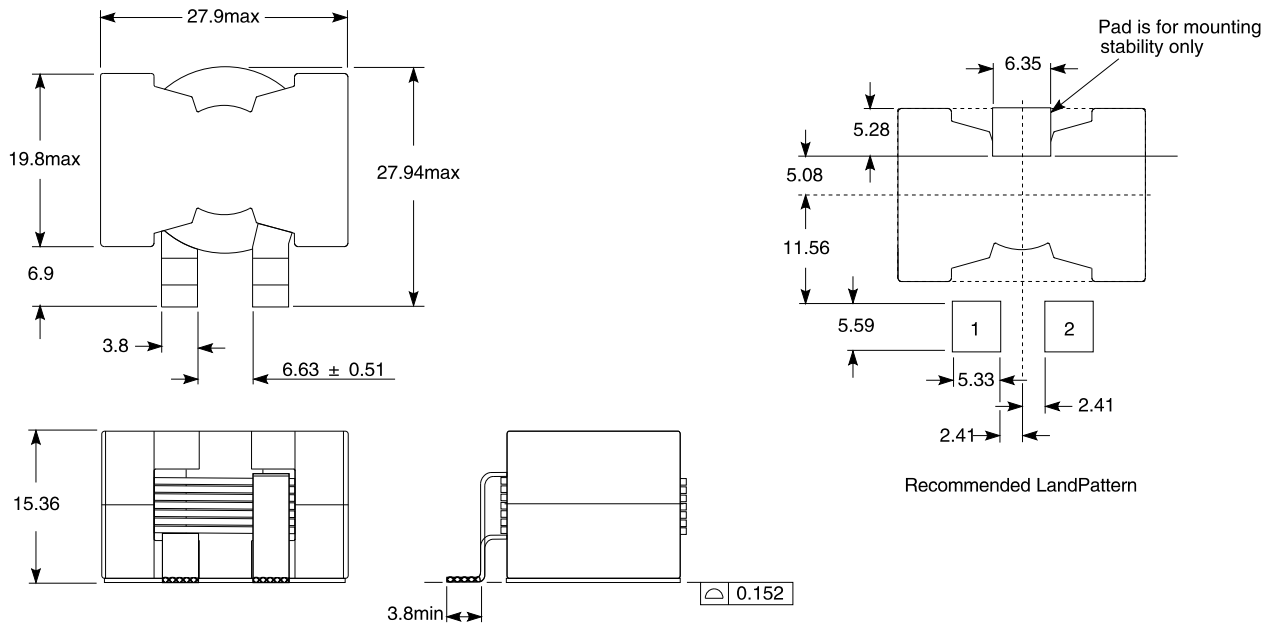
FEATURES:

- High inductance, low magnetic loss, small parasitic capacitance
- Extremely low DCR; Current handling to >100 Amps
- Temperature rise current and saturation current is less influenced by environment
- Third mounting pad for greater stability and board adhesion

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance 500KHz,0.1V (uH) ± 10%	DCR (mΩ)Max	SRF (MHz)typ	I _{rms} (A)typ.		I _{sat} (A)typ.		
				20°C rise	40°C rise	10% drop	20% drop	30% drop
SPQ2615A-2R2K	2.2	2.05	40	20	30	100	>100	>100
SPQ2615A-3R3K	3.3	2.05	30	20	30	62.0	66.9	68.4
SPQ2615A-4R7K	4.7	2.05	25	20	30	42.0	48.0	50.1
SPQ2615A-6R8K	6.8	2.05	20	20	30	30.0	34.5	36.2
SPQ2615A-100K	10	2.05	15	20	30	18.0	21.5	23.4
SPQ2615A-150K	15	2.05	12	20	30	11.5	14.0	15.2
SPQ2615A-220K	22	2.05	10	20	30	7.0	8.6	9.6
SPQ2615A-330K	33	2.05	8	20	30	4.0	5.1	5.9

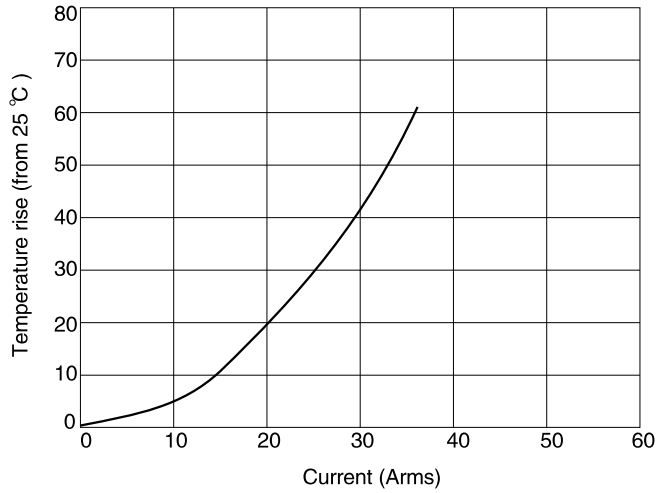
PHYSICAL CHARACTERISTICS & WINDING



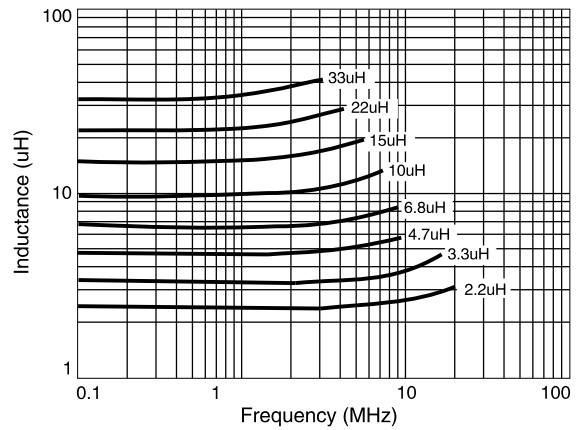
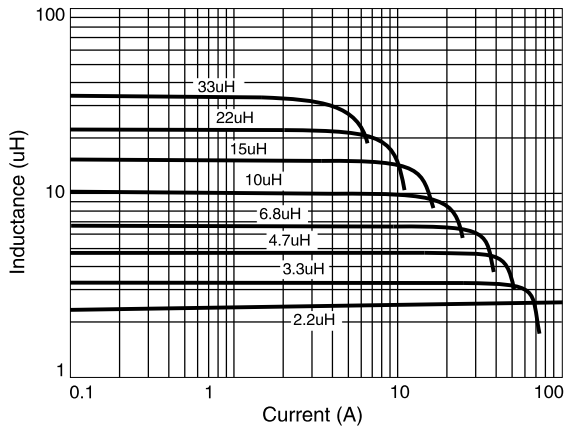
- All test data is referenced to 25°C ambient.
- Test condition: 500KHz,0.1V,0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
- I_{rms}: Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. When I_{rms} is greater than I_{sat}, I_{sat} is the more critical specification
- I_{sat}: DC current at 25°C that causes the specified inductance drop from its value without current. When I_{sat} rating is less than I_{rms}, I_{sat} is the more critical specification.
- Operating temperature range is -25°C to 125°C.
- Ambient temperature -40°C to +85°C with (40°C rise) I_{rms} current.
- Maximum part temperature +125°C (ambient + temp rise)
- Storage temperature Component: -40°C to +125°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

HIGH CURRENT POWER INDUCTORS

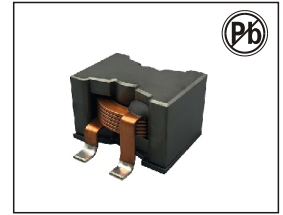
TEMPERATURE RISE VS CURRENT



L VS CURRENT L VS FREQUENCY



HIGH CURRENT POWER INDUCTORS SPQ2615B SERIES



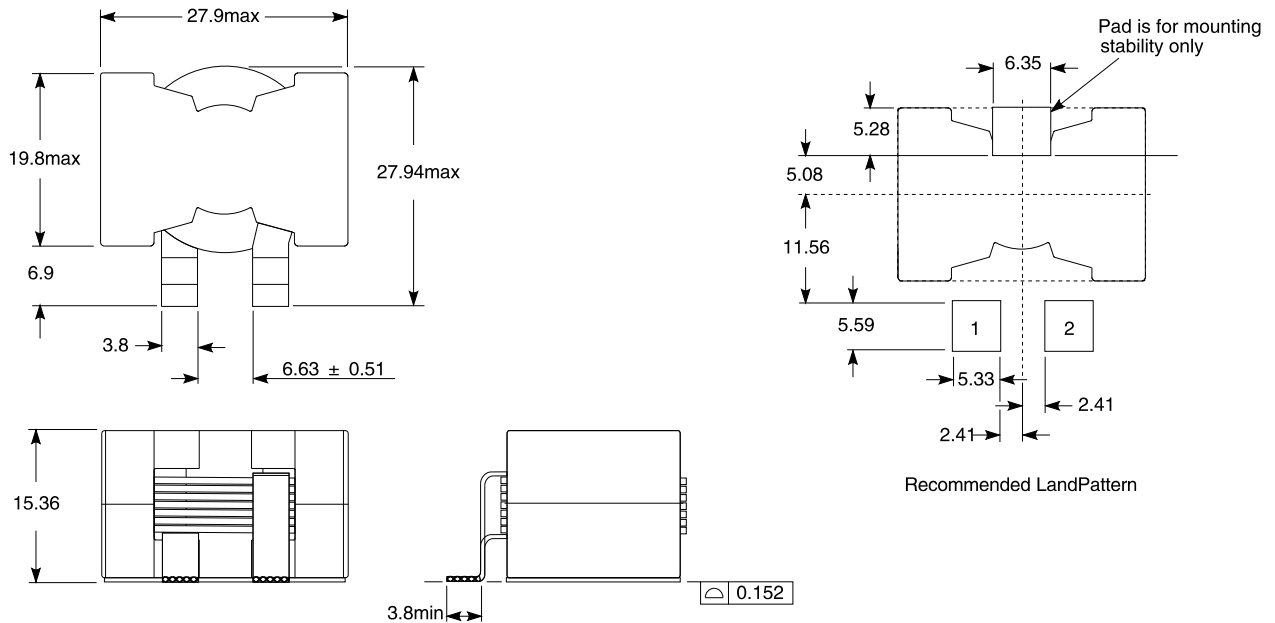
FEATURES:

- High inductance, low magnetic loss, small parasitic capacitance
- Extremely low DCR; Current handling to >100 Amps
- Temperature rise current and saturation current is less influenced by environment
- Third mounting pad for greater stability and board adhesion

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance 500KHz,0.1V (uH) ± 10%	DCR (mΩ)Max	SRF (MHz)typ	Irms(A)typ.		Isat(A)typ.		
				20°C rise	40°C rise	10% drop	20% drop	30% drop
SPQ2615B-1R5K	1.5	1.65	60	20	30	100	>100	>100
SPQ2615B-2R2K	2.2	1.65	50	20	30	82.0	84.0	84.8
SPQ2615B-3R3K	3.3	1.65	40	20	30	48.0	54.0	57.0
SPQ2615B-4R7K	4.7	1.65	30	20	30	33.0	36.9	39.0
SPQ2615B-6R8K	6.8	1.65	25	20	30	22.0	26.0	27.8
SPQ2615B-100K	10	1.65	20	20	30	13.0	16.2	17.6
SPQ2615B-150K	15	1.65	15	20	30	7.5	9.8	11.0
SPQ2615B-220K	22	1.65	10	20	30	4.5	6.0	6.8
SPQ2615B-330K	33	1.65	7	20	30	2.0	2.6	3.3

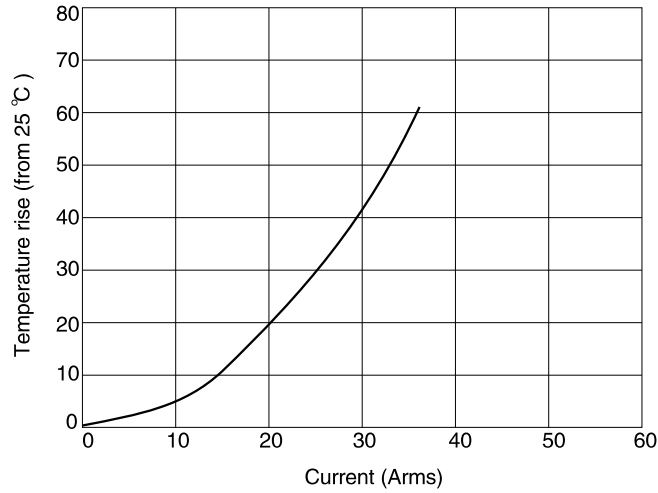
PHYSICAL CHARACTERISTICS & WINDING



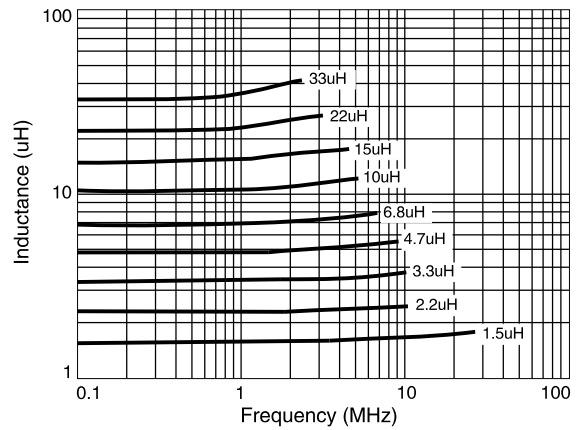
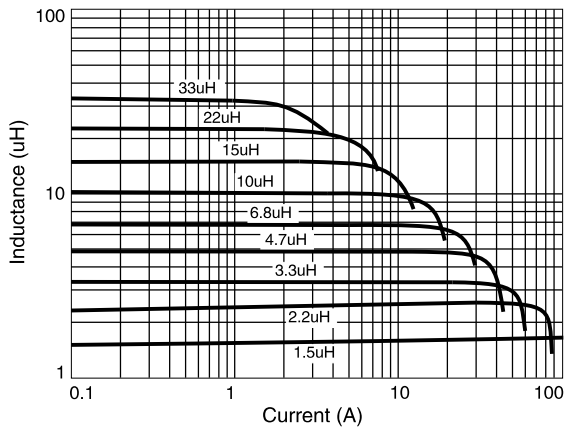
- All test data is referenced to 25°C ambient.
- Test condition: 500KHz,0.1V,0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
- Irms: Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. When Irms is greater than Isat, Isat is the more critical specification
- Isat: DC current at 25°C that causes the specified inductance drop from its value without current. When Isat rating is less than Irms, Isat is the more critical specification.
- Operating temperature range is -25°C to 125°C.
- Ambient temperature -40°C to +85°C with (40°C rise) Irms current.
- Maximum part temperature +125°C (ambient + temp rise)
- Storage temperature Component: -40°C to +125°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

HIGH CURRENT POWER INDUCTORS

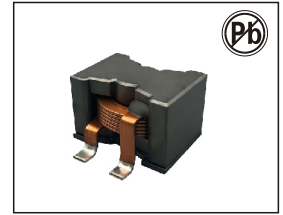
TEMPERATURE RISE VS CURRENT



L VS CURRENT L VS FREQUENCY



HIGH CURRENT POWER INDUCTORS SPQ2618A SERIES



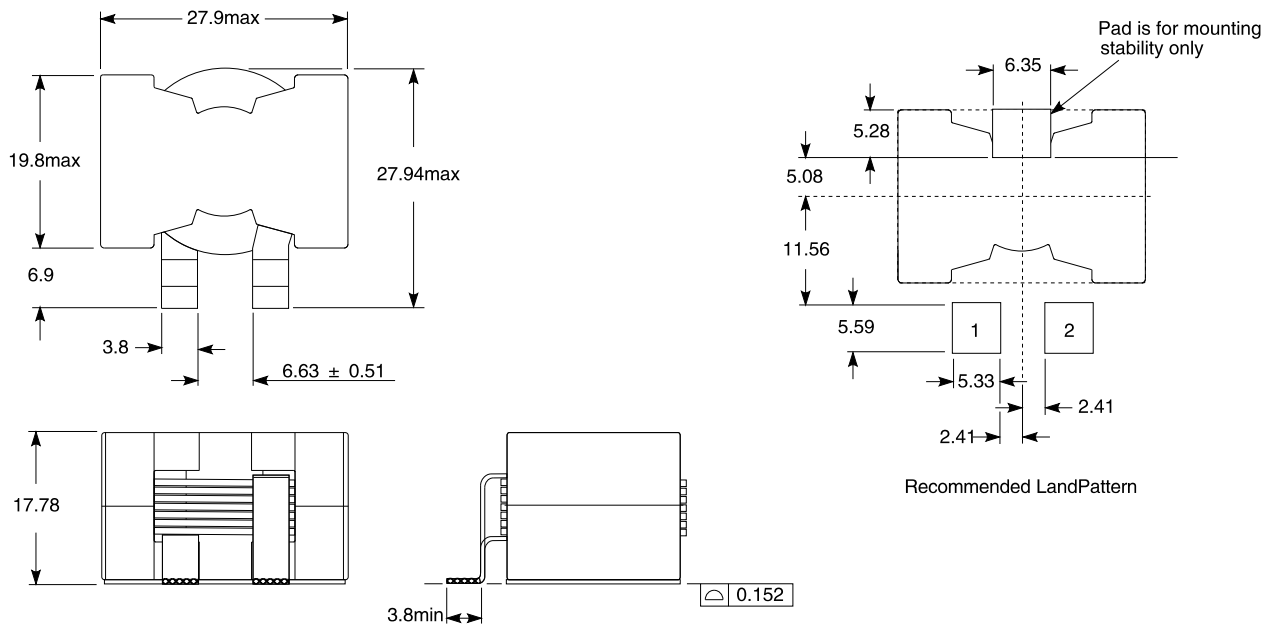
FEATURES:

- High inductance, low magnetic loss, small parasitic capacitance
- Extremely low DCR; Current handling to 93 Amps
- Temperature rise current and saturation current is less influenced by environment
- Third mounting pad for greater stability and board adhesion

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance 500KHz,0.1V (uH) ± 10%	DCR (mΩ)Max	SRF (MHz)typ	Irms(A)typ.		Isat(A)typ.		
				20°C rise	40°C rise	10% drop	20% drop	30% drop
SPQ2618A-3R3K	3.3	2.86	40	20	28	91.0	92.5	93.6
SPQ2618A-4R7K	4.7	2.86	30	20	28	59.0	61.2	62.4
SPQ2618A-6R8K	6.8	2.86	25	20	28	42.0	45.0	45.9
SPQ2618A-100K	10	2.86	20	20	28	28.0	31.2	32.1
SPQ2618A-150K	15	2.86	16	20	28	18.0	21.2	21.9
SPQ2618A-220K	22	2.86	15	20	28	12.0	14.0	15.0
SPQ2618A-330K	33	2.86	10	20	28	7.0	8.7	9.6

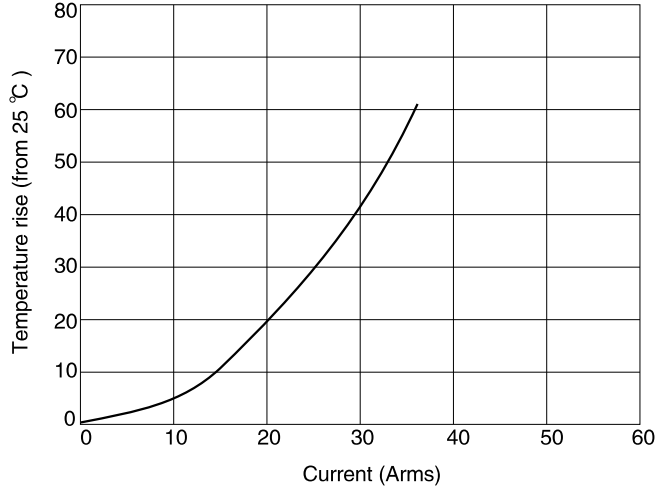
PHYSICAL CHARACTERISTICS & WINDING



- All test data is referenced to 25°C ambient.
- Test condition: 500KHz,0.1V,0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
- Irms:Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.When Irms is greater than Isat, Isat is the more critical specification
- Isat:DC current at 25°C that causes the specified inductance drop from its value without current. When Isat rating is less than Irms, Isat is the more critical specification.
- Operating temperature range is -25°C to 125°C.
- Ambient temperature -40°C to +85°C with (40°C rise) Irms current.
- Maximum part temperature +125°C (ambient + temp rise)
- Storage temperature Component: -40°C to +125°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

HIGH CURRENT POWER INDUCTORS

TEMPERATURE RISE VS CURRENT



L VS CURRENT L VS FREQUENCY

