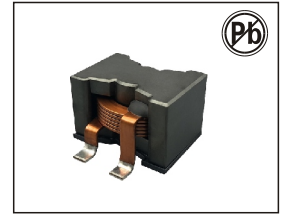


HIGH CURRENT POWER INDUCTORS SPQ2615A SERIES



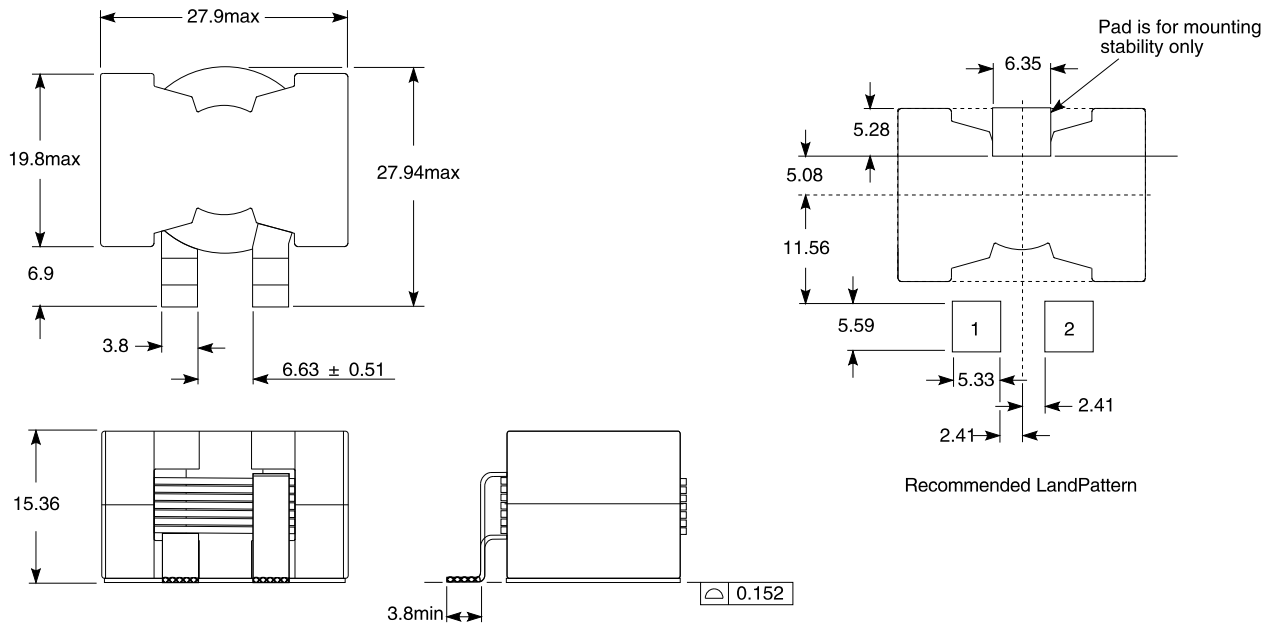
FEATURES:

- 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

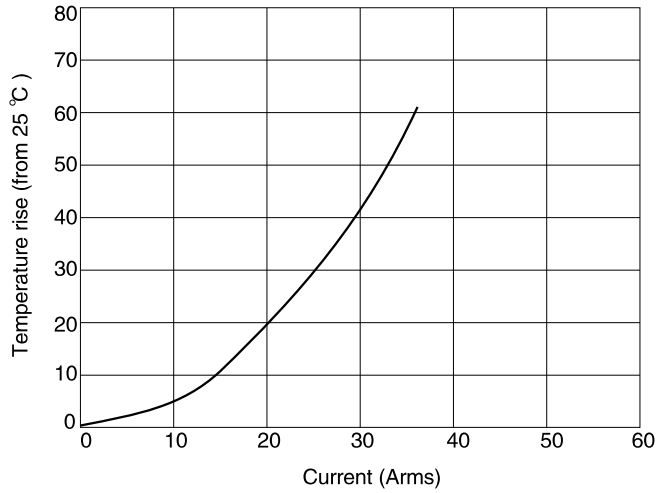
PHYSICAL CHARACTERISTICS & WINDING



- 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

