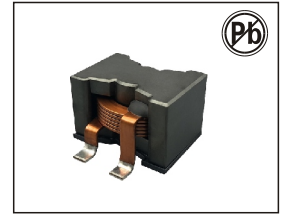


# HIGH CURRENT POWER INDUCTORS SPQ2615B SERIES



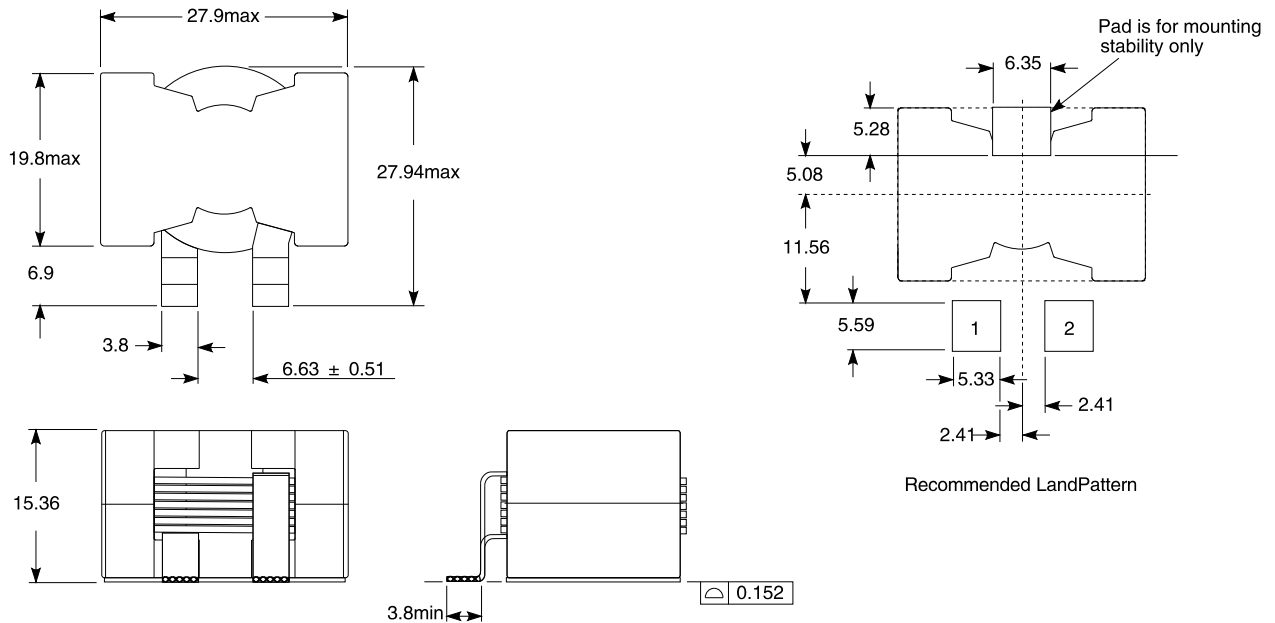
## FEATURES:

- 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

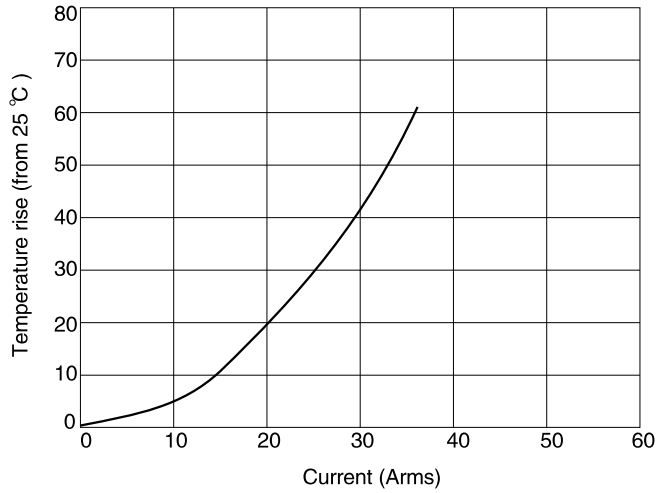
## PHYSICAL CHARACTERISTICS & WINDING



- 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

