

# HIGH CURRENT SHIELDED INDUCTOR

ASPI-7318



7.3 x 6.8 x 1.8mm

## FEATURES & APPLICATIONS:

- 100% lead (Pb) free.
- Lowest DCR/uH, in this package size.
- Frequency range up to 5.0MHZ.
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- Power supply for VTR
- OA equipment
- LCD television set
- Notebook PC
- Portable communication
- Equipments
- DC/DC converters, etc.

## STANDARD SPECIFICATIONS:

Part Number	L ( $\mu$ H) $\pm 20\%$	DCR (m $\Omega$ ) Max	HEAT RATING CURRENT DC AMPS TYPICAL	SATURATION CURRENT DC AMPS <sup>4</sup> TYPICAL
ASPI-7318- R10	0.10	3.5	18	40
ASPI-7318- R15	0.15	5.2	15	38
ASPI-7318- R22	0.22	5.7	14	26
ASPI-7318- R33	0.33	7.0	12	18
ASPI-7318- R47	0.47	9.3	11	18
ASPI-7318- R68	0.68	13.9	9	17
ASPI-7318- R82	0.82	15.9	8	17
ASPI-7318- 1R0	1.0	18.3	7	14
ASPI-7318- 1R5	1.5	34.0	4	11.5
ASPI-7318- 2R2	2.2	46.0	3.75	13
ASPI-7318- 2R5	2.5	52.4	3.5	10.4
ASPI-7318- 3R3	3.3	60.1	3.25	10
ASPI-7318- 4R7	4.7	78.0	3	8

## TECHNICAL INFORMATION:

- Inductance tested at 200KHz, 0.25V<sub>RMS</sub>
- Operating Temperature Range -55°C to +125°C
- DC current (A) that will cause an approximate  $\Delta T$  of 40°C
- DC current (A) that will cause  $L_o$  to drop approximately 20%.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

**Note:** All specifications subject to change without notice.

## REMARKS:

- Label packing box and reel: RoHS Compliance

## OUTLINE DRAWING:

