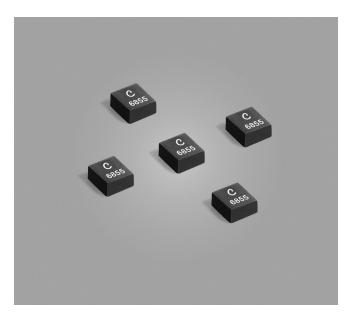






# Shielded Power Inductor RA6855-AE



- The part was formerly XFL3012-361ME
- High current, magnetically shielded power inductors
- 3 mm × 3 mm footprint; 1.2 mm maximum height

#### Core material Composite

Environmental RoHS compliant, halogen free

**Terminations** RoHS compliant tin-silver-copper (96.5/3/0.5) over tin over nickel over silver-platinum. Other terminations available at additional cost. **Weight** 53 mg

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.

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

aqueous wash. See Doc787\_PCB\_Washing.pdf.

**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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 2000/7" reel; 7500/13" reel Plastic tape: 8 mm wide,
0.23 mm thick, 4 mm pocket spacing, 1.25 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional

	Inductance <sup>2</sup>	DCR (Ohms)3	
Part number <sup>1</sup>	±20% (μH)	nom	max
RA6855-AE_	0.36	0.019	0.023

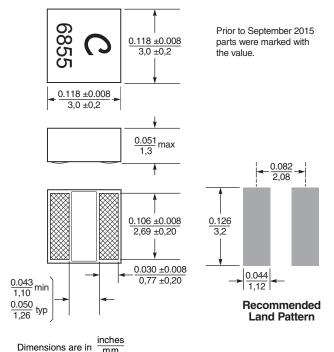
1. When ordering, please specify packaging code:

### RA6855-AEC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).

- B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
- D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (7500 parts per full reel).
- 2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
- 3. DCR measured on a micro-ohmmeter.
- 4. SRF measured using Agilent/HP 4395A or equivalent.
- DC current at 25°C that causes the specified inductance drop from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
   This information is for reference only and does not represent absolute maximum ratings.
- 7. Electrical specifications at 25°C.

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





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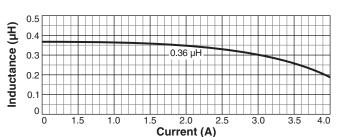


# Shielded Power Inductor – RA6855-AE

## L vs Current







## **Typical L vs Frequency**

