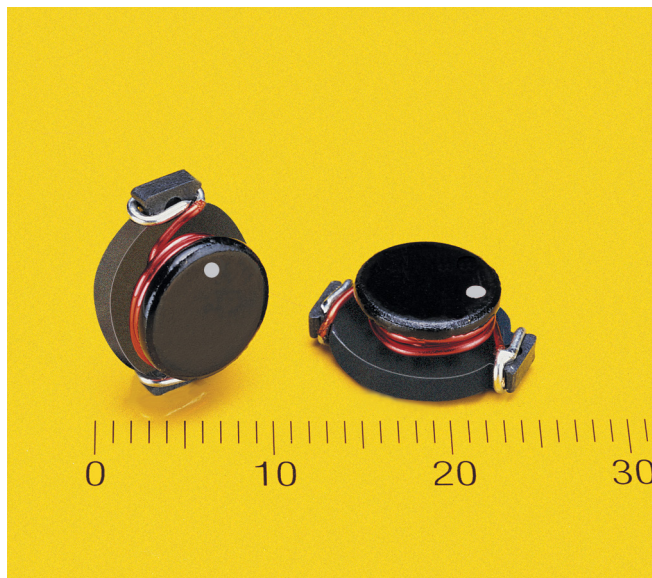


PRELIMINARY

Military Grade Power Inductor MS563PKA-301



- High temperature materials allow operation in ambient temperatures up to 155°C.
- Soldered self-leaded construction for excellent solderability.
- Very low DCR values and excellent current handling

Core material Ferrite

Terminations Tin-lead (63/37) over copper

Weight 0.95 – 1.25 g

Ambient temperature –55°C to +105°C with Irms current, +105°C to +155°C with derated current

Storage temperature Component: –55°C to +155°C.
Packaging: –55°C to +80°C

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)

Enhanced crush-resistant packaging 750 per 13" reel
Plastic tape: 24 mm wide, 0.35 mm thick, 12 mm pocket spacing, 6.4 mm pocket depth

Part number ¹	Inductance ² ±20% (µH)	DCR (mOhm) ³		SRF (MHz) ⁴		Isat (A) ⁵			Irms (A) ⁶	
		typ	max	min	typ	10% drop	20% drop	30% drop	20°C rise	40°C rise
MS563PKA301MSZ	0.30	2.0	2.5	200	238	14	16	17	8	12

1. When ordering, please specify **testing** code:

MS563PKA301MSZ

Testing: Z = COTS

H = Screening per Coilcraft CP-SA-10001

N = Screening per Coilcraft CP-SA-10004

C = Custom screening (please specify when ordering)

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

3. SRF measured using Agilent/HP 8753D network analyzer or equivalent.

4. Typical DC current at which the inductance drops 10% (typ) from its value without current.

5. Typical Current that causes a 40°C temperature rise from 25°C ambient.

6. Electrical specifications at 25°C.

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

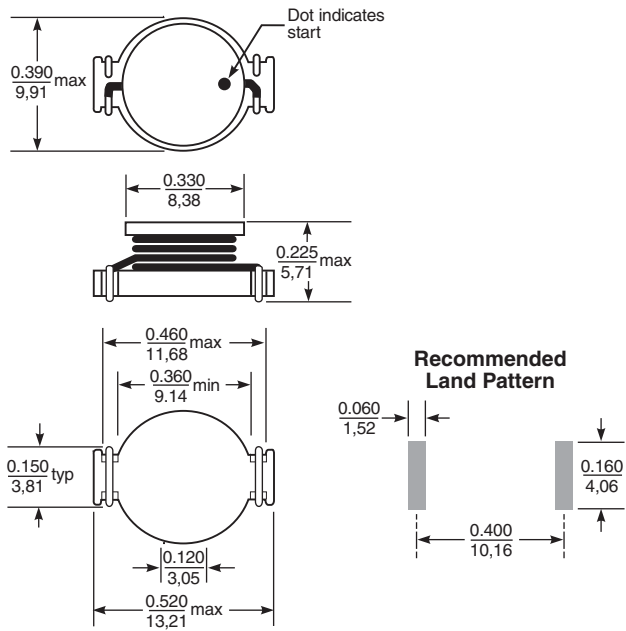
Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

Parts shown are preproduction products available for evaluation only. Document MS196-1 Revised 05/30/17

1102 Silver Lake Road
Cary, IL 60013
Phone 800-981-0363

Fax 847-639-1508
Email cps@coilcraft.com
www.coilcraft-cps.com

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

PRELIMINARY**MS563PKA301 (3316)**

Dimensions are in $\frac{\text{inches}}{\text{mm}}$