

NEW!

Power Filter Inductors

For TI TAS5612/5614
Class D Amplifiers



These toroidal chokes were developed for use in Texas Instrument's TAS5612/14PHD2EVM evaluation module with TAS5612PHD and TAS5614PHD power stages.

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

Core material Powdered iron

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver (96.5/3.5) over copper

Weight MA5172-AE: 18.7 g; MA5173-AE: 17.6 g; PA6331-AE: 21.2 g

Ambient temperature -40°C to +125°C with Irms current
+125°C to +165°C with derated current

Storage temperature Component: -40°C to +125°C.
Tray packaging: -40°C to +80°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

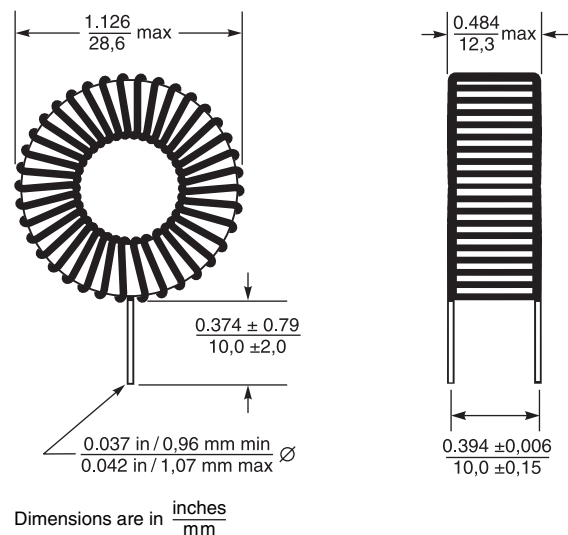
Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 25 per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Part number	Inductance $\pm 1 \mu\text{H}^1$ (μH)	DCR max (mOhms)	SRF min (MHz)	Isat ² (A)	Irms (A) ³	
					20°C rise	40°C rise
PA6331-AE	15	31.0	12.4	20	9.8	14.2
MA5172-AE	10	26.0	25.5	45	6.1	8.2
MA5173-AE	7	21.5	32.8	54	6.5	9.0

1. Inductance measured at 10 kHz, 0.1 Vrms, 0 Adc using an Agilent/ HP 4132 impedance analyzer or equivalent.
2. DC current at which the inductance drops 10% (typ) from its value without current.
3. Current that causes the specified temperature rise from 25°C ambient.
4. Electrical specifications at 25°C.



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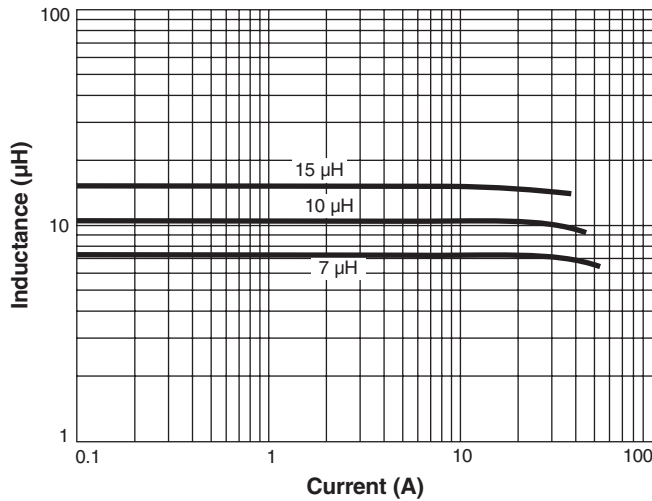
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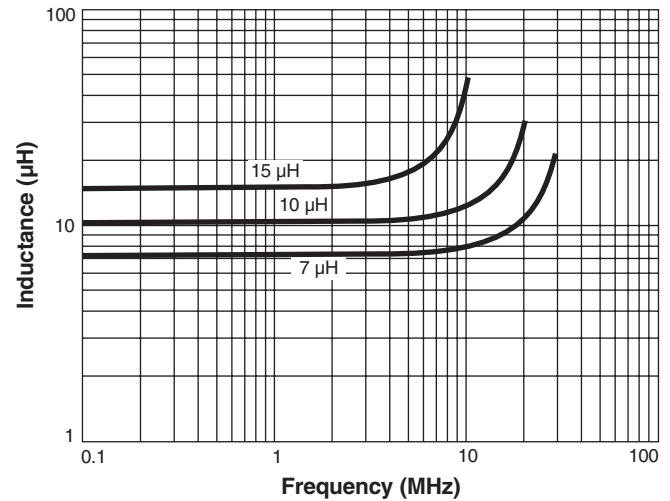
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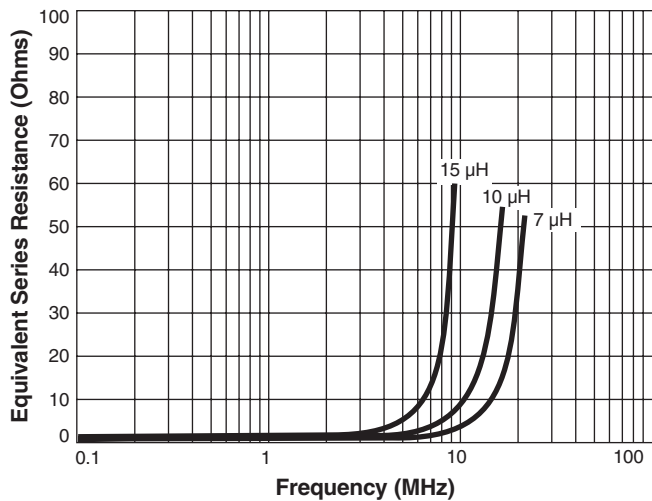
L vs Current



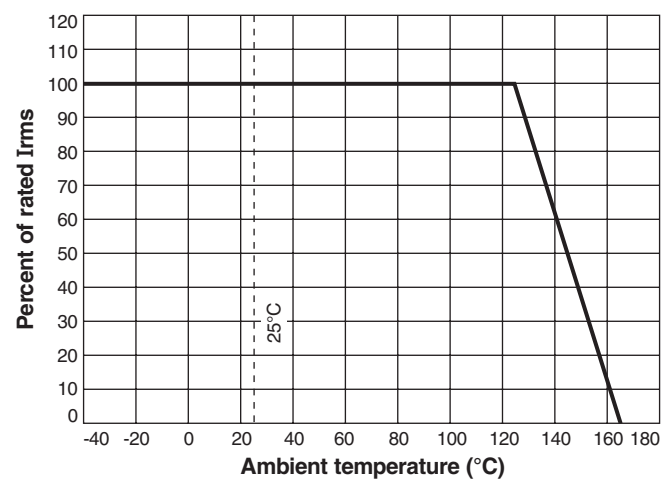
L vs Frequency



ESR vs Frequency



Irms Derating


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