

Power Filter Inductors

For TI TAS5612/5614
Class D Amplifiers



Low distortion chokes used in Texas Instrument's TPA3251D2 PurePath Ultra-HD, TAS5612/14PHD2EVM, TAS5612PHD and TAS5614PHD evaluation modules.

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 (40°C rise) Irms current.

Maximum part temperature +165°C (ambient + temp rise).

Storage temperature Component: -40°C to +165°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)

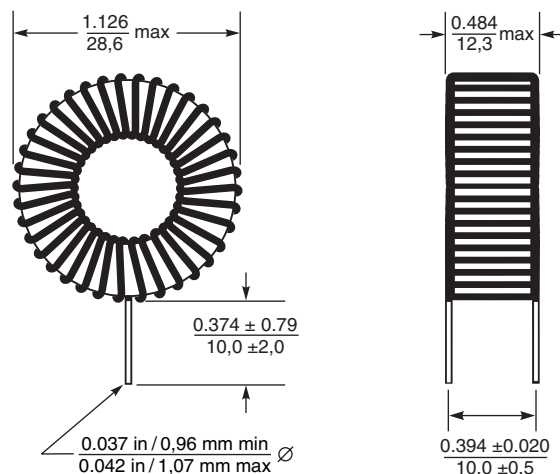
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 25 per tray

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. 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 25°C that causes an inductance drop of 10% (typ) from its value without current.
3. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
4. Electrical specifications at 25°C.



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



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com

UK +44-1236-730595 sales@coilcraft-europe.com

Taiwan +886-2-2264 3646 sales@coilcraft.com.tw

China +86-21-6218 8074 sales@coilcraft.com.cn

Singapore + 65-6484 8412 sales@coilcraft.com.sg

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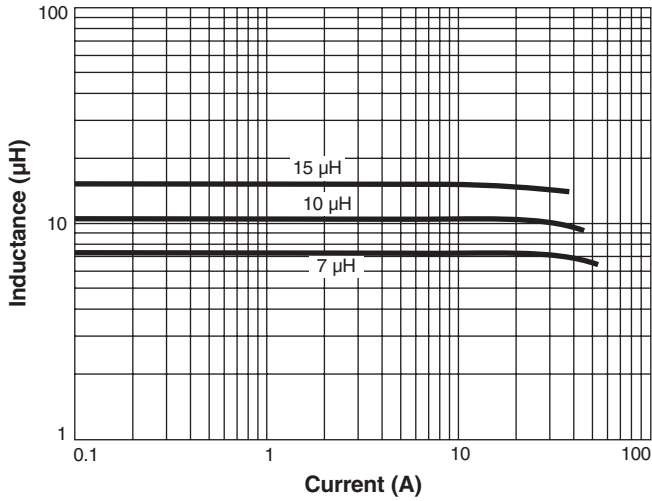
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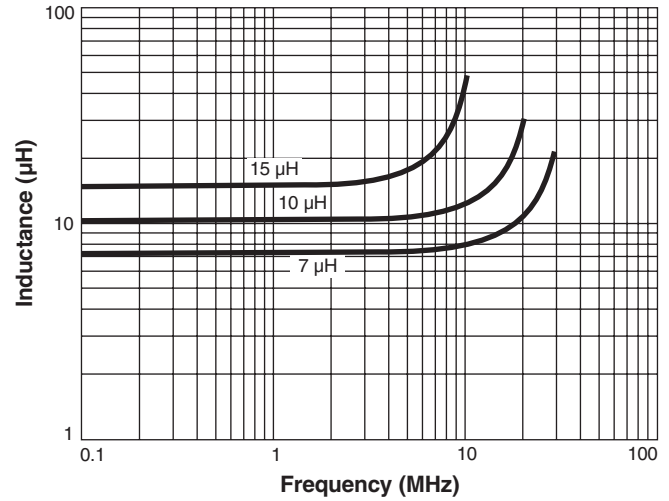


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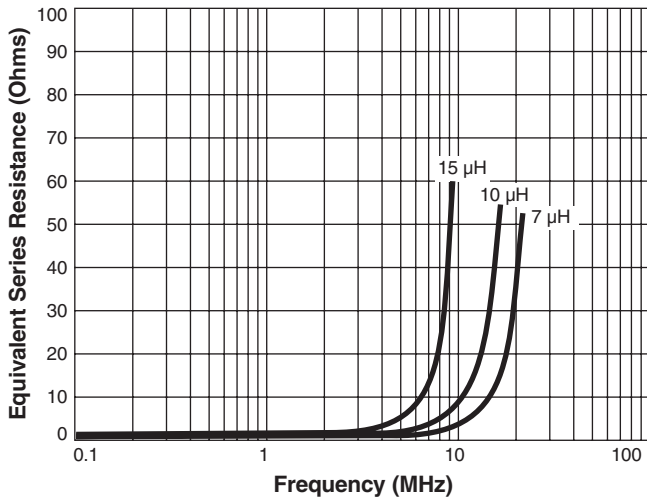
L vs Current



L vs Frequency



ESR vs Frequency



US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
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China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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