

MOLDED INDUCTORS

AMPLA FAMILY



Abrakon's AMPLA family of SMD molded power inductors work for applications requiring soft saturation, high current handling and interference protection. The AMPLA inductors utilize metal powder cores with higher power densities for lower DCRs and lower core losses when compared to traditional ferrite inductors. The family also features optimal EMI shielding for low buzz noise in environments with switching frequencies as high as 2MHz. These components work ideally for DC/DC conversion in compact spaces requiring high power, high efficiency and EMI suppression. The AMPLA family offers a wide range of package sizes for applications spanning the commercial and industrial markets.

FEATURES

- Magnetic powder optimized for high saturation current
- Molded construction for superior magnetic shielding
- High current density for reduced package sizes
- Low DCR inductors for better thermal efficiencies
- Designed for switching frequencies between 100KHz-2MHz

APPLICATIONS

- DC/DC Converters and SMPS
- Speakers
- Commercial, Residential and Industrial Lighting
- Industrial Pumps
- Servers/Switches/Routers
- Drones and Robotics
- Power Tooling

SERIES	INDUCTANCE (μH)	CURRENT RATING (A)	DCR (mΩ)	RATED CURRENT (A)	DCR (mΩ)	PACKAGE SIZE			OPERATING TEMPERATURE
				@ 1 μH		L	W	H	
AMPLA4012S	0.1-22	0.8-12	5-1050	4.0	47.0	4.5	4.1	1.2	-55°C to +125°C
AMPLA4020S	0.1-22	1.2-12	4-500	5.0	27.0	4.5	4.1	2.0	-55°C to +125°C
AMPLA5030S	0.15-22	1.7-18	2-250	7.0	14.0	5.7	5.2	3.0	-55°C to +125°C
AMPLA7012S	0.1-10	1.8-16	4-290	6.0	30.0	7.0	6.6	1.2	-55°C to +125°C
AMPLA7030S	0.1-47	1.8-33	1-363	11.0	10.0	7.3	6.6	3.0	-55°C to +125°C
AMPLA7050S	0.4-22	2.5-23	3-170	15.0	6.5	7.3	6.6	5.0	-55°C to +125°C
AMPLA1004S	0.15-68	2.0-43	0.6-240	18.0	3.3	11.0	10.0	4.0	-55°C to +125°C
AMPLA1306S	0.15-100	2.5-55	0.6-200	30.0	2.3	13.5	12.5	6.5	-55°C to +125°C
AMPLA1707S	0.45-100	5.3-62	0.9-118	52.0	2.0	17.6	16.9	7.0	-55°C to +125°C