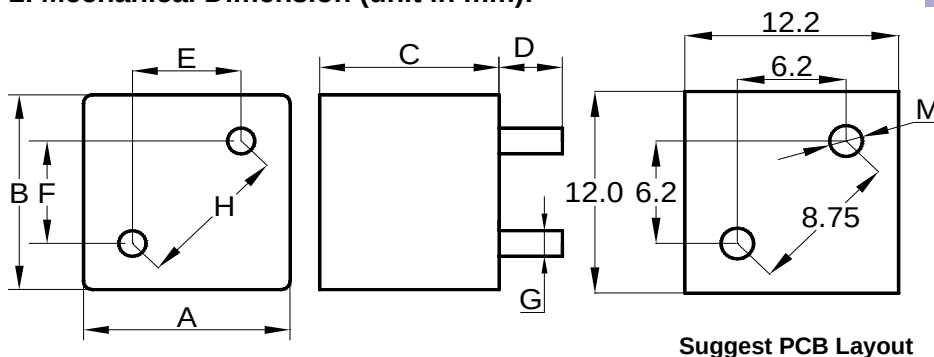


1. Features:

- Made of purify powder for 500KHz+ application
- Designed and developed for high current application
- High density design to save board space
- Tight DCR tolerance for current sensing application
- Operating Temperature Range -55°C to + 180°C

2. Mechanical Dimension (unit in mm):



A	11.4 ±0.5
B	11.4±0.3
C	10.0±0.3
D	3.9±0.5
E	6.2±0.3
F	6.2±0.3
G	See Table
H	8.75±0.3
M	See Table

3. Electrical Characteristic of AMT4540 Series:

Part Number	Inductance (uH) ±20%	DCR (mΩ) ±8%	Isat (Amp) Max.	L @ Isat (uH) Typ.	Irms (Amp)	L @ Irms (uH) Typ.	G (mm)	M (ref) (mm)
AMT4540-R20MU	0.20	0.44	70	0.18	65.0	0.18	1.5±0.3	1.8
AMT4540-R36MU	0.36	0.63	70	0.30	52.0	0.32	1.5±0.3	1.8
AMT4540-R50MU	0.50	0.65	52	0.42	52.0	0.42	1.5±0.3	1.8
AMT4540-R60MU	0.60	0.80	56	0.51	47.0	0.53	1.5±0.3	1.8
AMT4540-R80MU	0.80	0.86	42	0.63	42.5	0.62	1.5±0.3	1.8
AMT4540-1R0MU	1.00	1.32	40	0.82	36.1	0.86	1.3±0.3	1.6
AMT4540-1R2MU	1.20	1.32	34	0.94	36.5	0.92	1.3±0.3	1.6

Note:

1. Inductance and L @ Irms and L @ Isat are measured at: 500KHz, 1V @ 25°C.
2. Irms: DC current that will cause an approximately ΔT of 40°C
3. Isat: DC current that will cause inductance to drop approximately by 20%.

