

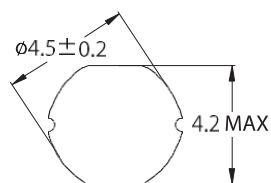
MGT-542^{SERIES}

SMD Power Inductors

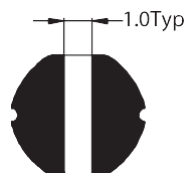


- Only 4.2 x 4.5 x 3.5 mm (high)
- Very low DCR and high-energy storage
- Low cost for wide application
- Custom versions available upon request
- Tape & Reel package

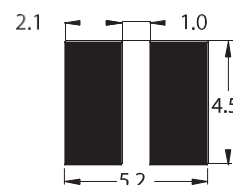
Mechanical Dimensions:



(TOP VIEW)



(BOTTOM VIEW)



RECOMMENDED PCB LAYOUT

UNIT:mm

Part Number	Inductance ¹ (uH)	DCR 20°C (Ω Max.)	Isat ² (Adc)
MGT - 542 - 1R0	1.0	0.048	2.7
MGT - 542 - 1R5	1.5	0.056	2.6
MGT - 542 - 1R8	1.8	0.063	2.0
MGT - 542 - 2R2	1.8	0.071	1.9
MGT - 542 - 2R7	2.2	0.078	1.8
MGT - 542 - 3R3	2.7	0.086	1.7
MGT - 542 - 3R9	3.3	0.093	1.6
MGT - 542 - 4R7	3.9	0.108	1.5
MGT - 542 - 5R6	4.7	0.125	1.4
MGT - 542 - 6R8	5.6	0.131	1.3
MGT - 542 - 8R2	6.8	0.146	1.2
MGT - 542 - 100	8.2	0.182	1.1
MGT - 542 - 120	10	0.210	0.97
MGT - 542 - 150	12	0.235	0.85
MGT - 542 - 180	15	0.338	0.74
MGT - 542 - 220	18	0.378	0.68
MGT - 542 - 270	22	0.522	0.62
MGT - 542 - 330	33	0.540	0.56
MGT - 542 - 390	39	0.587	0.52
MGT - 542 - 470	47	0.844	0.44
MGT - 542 - 560	56	0.937	0.42
MGT - 542 - 680	68	1.117	0.37

1. Inductance tested at 100kHz, 0.1Vrms, 0Adc.

Tolerance 1.0 H, 8.2 H 15%, 10 H 68.0 H 10% ~ μ ±

2. Inductance drop = 10% typ.at rated Isat.

3. ΔT = 45 mSec typ.

4. Operating temperature range -40 to + 85 °C

5. Electrical specifications at 25 °C