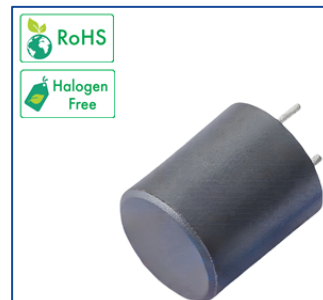
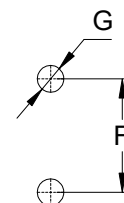
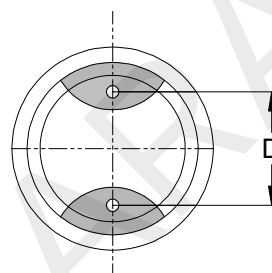
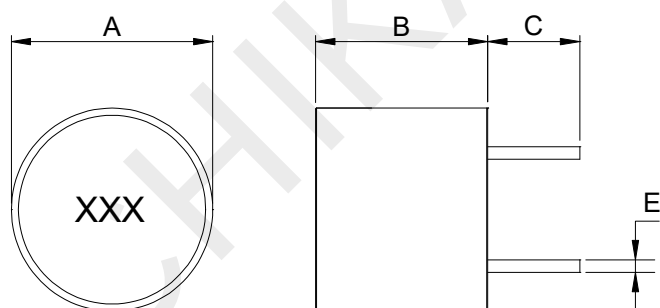


Features

- Shielded, leaded drum core
- Storage temperature range:-55°C to + 130°C
- Operating temperature range:-55°C to + 130°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:200pcs. per tray
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

A	B	C	D	E	F	G
Ø10.5Max.	9.2Max.	5.0±0.5	5.0±0.5	Ø0.7±0.1	5.0	Ø1.2

Part Number Description

DP05 - 1009 100 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)Typ.	DCR (Ω)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
DP05-1009100M	10±20%	0.031	0.038	43.0	2.30	2.70
DP05-1009120M	12±20%	0.034	0.043	36.0	2.20	2.60
DP05-1009150M	15±20%	0.041	0.048	29.0	2.10	2.50
DP05-1009180M	18±20%	0.044	0.058	23.0	1.70	2.30
DP05-1009220M	22±20%	0.048	0.063	16.0	1.60	2.10
DP05-1009270M	27±20%	0.054	0.074	12.5	1.50	2.00
DP05-1009330M	33±20%	0.085	0.110	9.7	1.30	1.80
DP05-1009390M	39±20%	0.088	0.120	8.0	1.20	1.70
DP05-1009470M	47±20%	0.104	0.130	6.4	1.10	1.65
DP05-1009560M	56±20%	0.111	0.150	6.0	1.00	1.60
DP05-1009680M	68±20%	0.120	0.160	5.5	0.97	1.50
DP05-1009820M	82±20%	0.134	0.180	4.8	0.90	1.40
DP05-1009101K	100±10%	0.151	0.200	4.0	0.77	1.30
DP05-1009121K	120±10%	0.208	0.290	3.7	0.75	1.10
DP05-1009151K	150±10%	0.231	0.310	3.3	0.64	1.00
DP05-1009181K	180±10%	0.269	0.370	3.0	0.54	0.95
DP05-1009221K	220±10%	0.311	0.410	2.6	0.52	0.86
DP05-1009271K	270±10%	0.425	0.560	2.4	0.48	0.75
DP05-1009331K	330±10%	0.471	0.620	2.1	0.43	0.70
DP05-1009391K	390±10%	0.642	0.870	1.8	0.38	0.64
DP05-1009471K	470±10%	0.701	0.950	1.6	0.35	0.60
DP05-1009561K	560±10%	0.932	1.300	1.5	0.32	0.53
DP05-1009681K	680±10%	1.080	1.500	1.3	0.29	0.51
DP05-1009821K	820±10%	1.490	2.000	1.2	0.27	0.41
DP05-1009102K	1000±10%	1.640	2.200	1.0	0.25	0.39

- Test frequency and voltage:1KHz,0.25Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.