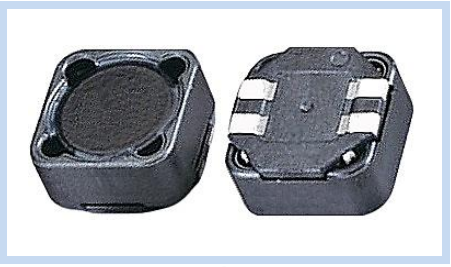
Power Inductor
Dual-Winding Shielded AEC-Q200

PID221K127M52

MERITEK

FEATURE

- **Multiple Applications: Parallel, Series, Dual-Inductor and Transformer**
- **Magnetically Shielded Construction Against Radiation**
- **AEC-Q200 Qualified**
- **Ideal used in DC/DC Converters**



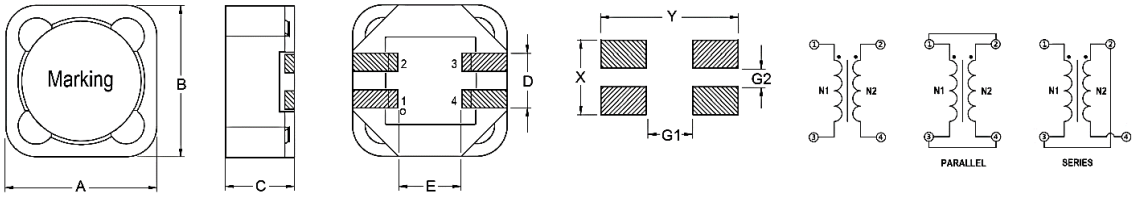
RoHS

ELECTRICAL CHARACTERISTICS

Part Number	Nominal Inductance (µH)	Test Frequency (Hz)	DCR Max (Ω)	I_{SAT} Typ (A)	I_{RMS} Typ (A)	
					Both Windings	One Winding
PID221K127M52	220 ±10%	0.25V/100K	0.69	2.3	0.74	1.05

Notes:
1. Electrical specifications at 25°C.
2. Inductance and DCR are shown for individual winding.
3. I_{SAT}, when applied to one winding or the sum of current flowing in both windings, the inductance drops 30% approximately from its initial value without current.
4. I_{RMS} (both windings), when applied to each winding simultaneously, which cause a temperature rise 40°C approximately from 25°C ambient.
5. I_{RMS} (one winding), when applied to one winding, which cause a temperature rise 40°C approximately from 25°C ambient.
6. Operating Temperature: -40°C ~ +125°C (Including Self-temperature rise).

DIMENSIONS



Unit: mm

Size Code	A±0.3	B±0.3	C Max	D	E	X	Y	G1	G2
127	12.0	12.0	8.5	5.0	7.3	6.5	13.8	6.1	1.5

PART NUMBERING SYSTEM

PID **221K** **127** **M52**
(1) (2) (3) (4)

No.	Item	Code	Description	
(1)	**Product Code**	PID	Power Inductor Series, Daul Winding Type	
(2)	**Inductance**	221K	220µH ±10% (K)	First two digits: Significant, Third: Multiplier
(3)	**Size Code**	127	12.0x12.0x8.5mm	Length x Width x Thickness (mm)
(4)	**Series Code**	M52	Power Inductor Dual Winding Type, AEC-Q200, Internal control or project reference	