

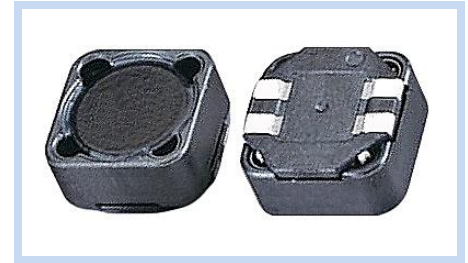
Power Inductor Dual-Winding Shielded

PID221K12752

MERITEK

FEATURE

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



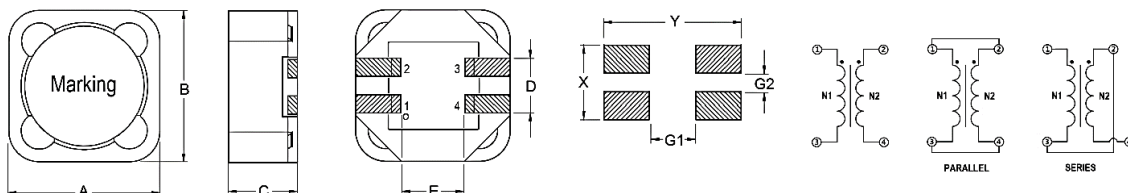
ELECTRICAL CHARACTERISTICS

| Part Number | Nominal Inductance (μH) | Test Frequency (Hz) | DCR Max (Ω) | I _{SAT} Typ (A) | I _{RMS} Typ (A) | |
|--------------|-------------------------|---------------------|-------------|--------------------------|--------------------------|-------------|
| | | | | | Both Windings | One Winding |
| PID221K12752 | 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 52
(1) (2) (3) (4)

| No. | Item | Code | Description |
|-----|--------------|------|-------------------------------------------------------------------------|
| (1) | Product Code | PID | Power Inductor Series, Dual 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 | 52 | Power Inductor Dual Winding Type, Internal control or project reference |