

VLCF5028T-470MR49-2



|               |                  |
|---------------|------------------|
| Applications  | Commercial Grade |
| Feature       | Wire Wound       |
|               | Magnetic Shield  |
|               | Ferrite Core     |
| Series   Type | VLCF             |
| Status        | Production       |
| Brand         | TDK              |



| Size                         |                |
|------------------------------|----------------|
| Length(L)                    | 5.00mm ±0.20mm |
| Width(W)                     | 5.00mm ±0.20mm |
| Thickness   Height           | 2.80mm Max.    |
| Recommended Land Pattern (A) | 2.10mm Nom.    |
| Recommended Land Pattern (B) | 1.30mm Nom.    |
| Recommended Land Pattern (C) | 3.00mm Nom.    |
| Recommended Land Pattern (D) | 4.90mm Nom.    |

| Electrical Characteristics              |                     |
|-----------------------------------------|---------------------|
| Inductance                              | 47μH ±20% at 100kHz |
| Rated Current (L Change) [Typ.]         |                     |
| Rated Current (L Change) [Max.]         | 490mA (30% Down)    |
| Rated Current (Temperature Rise) [Typ.] | 1.1A (40°C Rise)    |
| Rated Current (Temperature Rise) [Max.] |                     |
| DC Resistance [Typ.]                    | 290mΩ               |
| DC Resistance [Max.]                    | 330mΩ               |
| Self Resonant Frequency [Min.]          |                     |
| Self Resonant Frequency [Typ.]          |                     |
| Q [Min.]                                |                     |
| Q [Typ.]                                |                     |

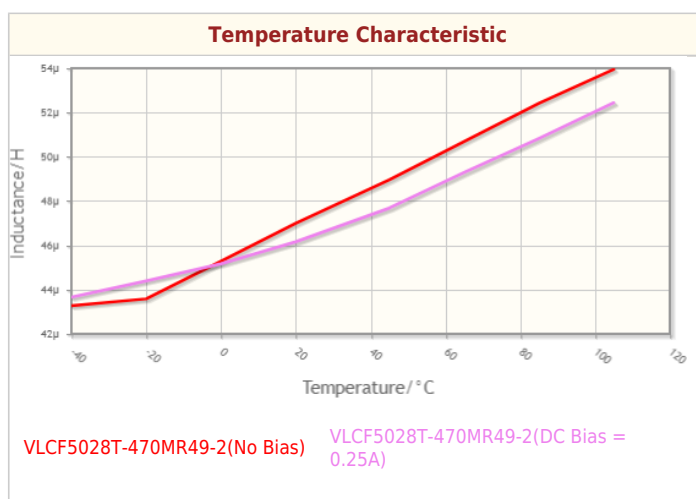
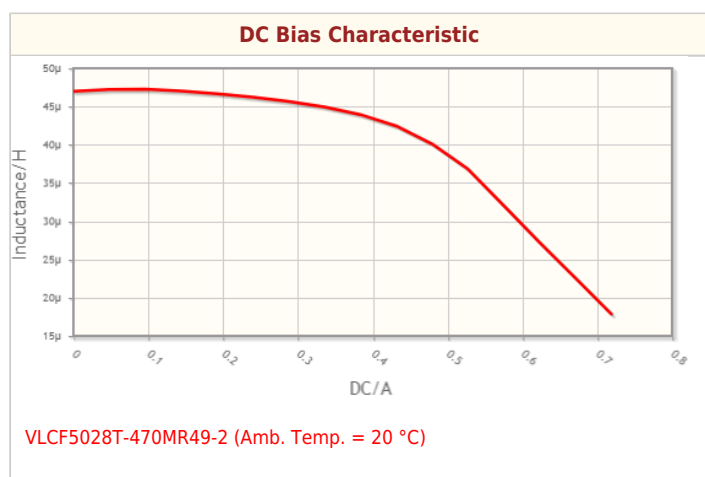
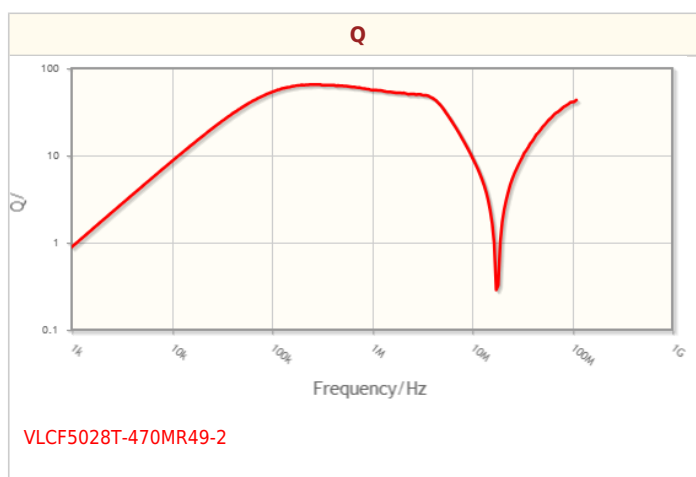
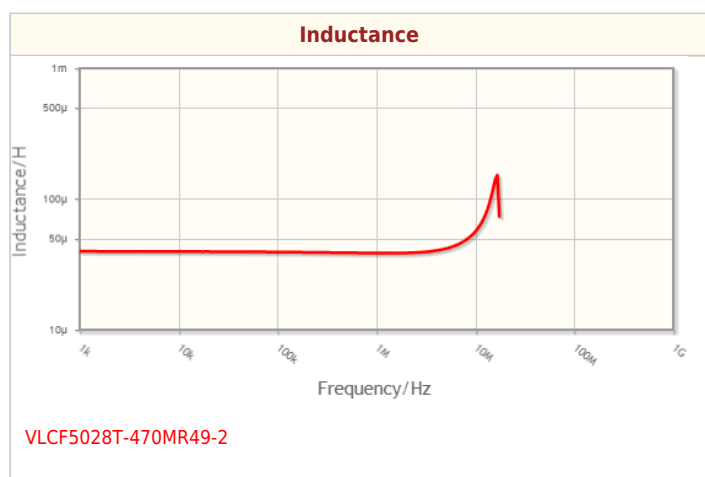
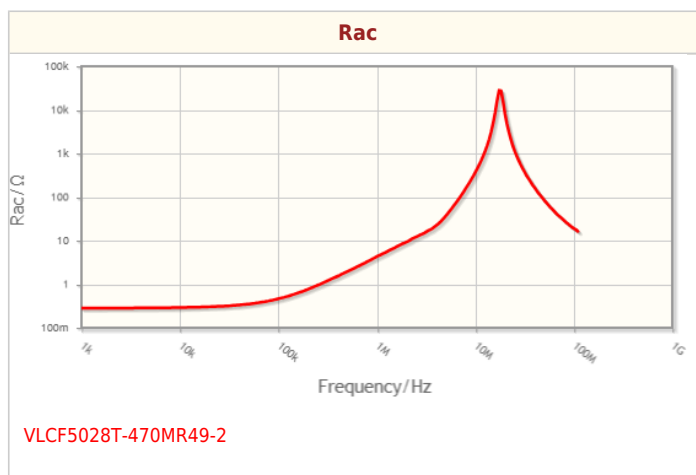
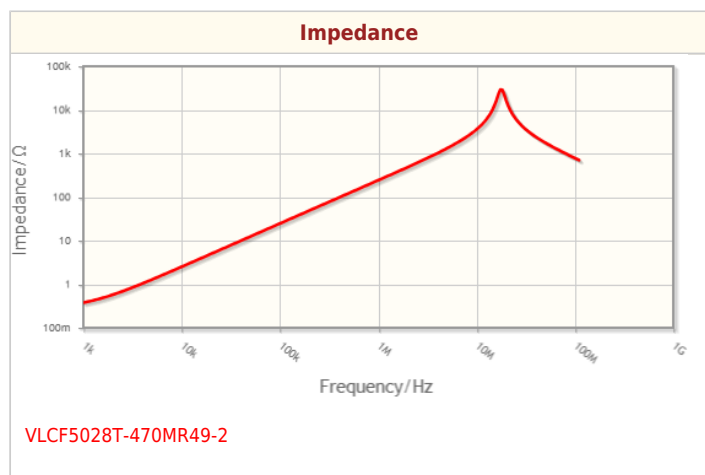
| Other                 |                                          |
|-----------------------|------------------------------------------|
| Operating Temp. Range | -40 to 105°C (Including Self-Temp. Rise) |
| Soldering Method      | Reflow                                   |
| AEC-Q200              | NO                                       |
| Packing               | Embossed (Plastic)Taping [180mm Reel]    |
| Package Quantity      | 500pcs                                   |
| Weight                | 0.258g                                   |

! Images are for reference only and show exemplary products.  
! This PDF document was created based on the data listed on the TDK Corporation website.  
! All specifications are subject to change without notice.

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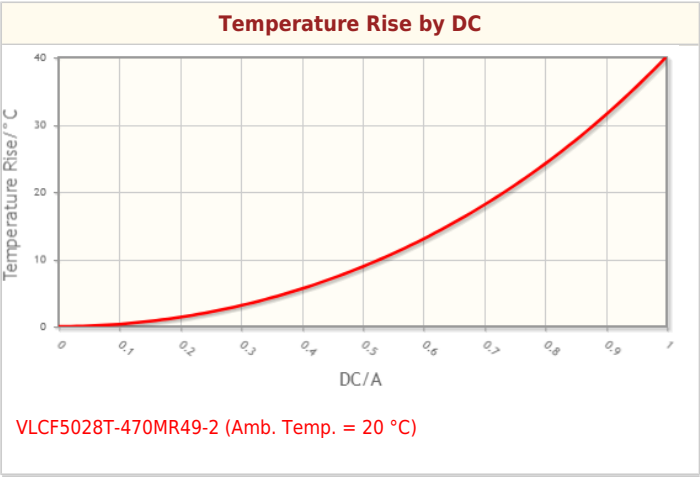
## Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)



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# Associated Images

