

Common-Mode Chokes - HCESC Series



These common-mode chokes provide excellent attenuation of asymmetric EMI on signal lines as well as in DC-DC converters, switch-mode power supplies and other high frequency applications

- Applied standards: ECSS-Q-ST-70-02C, MIL-STD-202, DO-160 and ESCC 3201 generic specification for space products
- Surface-mount and through-hole packages
- Suited for IR and vapor reflow soldering
- Frequency range up to 100MHz
- Operation temperature range: -55 °C to +125 °C
- Weight: 0.7gram

Electrical Data (25°C)

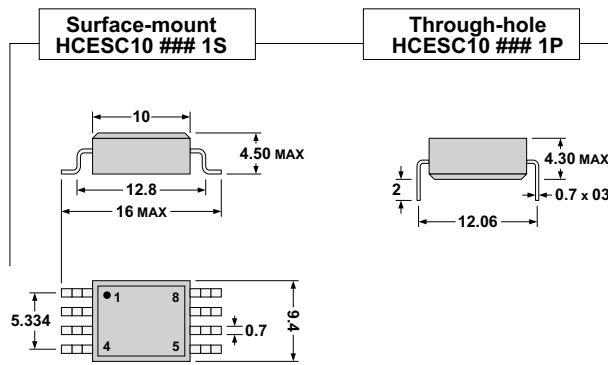
| ID Code | Inductance (at 100kHz) μ H | Rdc Max (at 80°C) m Ω | Impedance (at 100kHz) Ω | Rated Current max A | Isolation between windings Vrms | Max attenuation on 50 Ω dB |
|----------------|--------------------------------|------------------------------|--------------------------------|---------------------|---------------------------------|-----------------------------------|
| HCESC10 15K 1x | 15 | 15 | 115 | 2.5 | 1500 | 7 (10MHz) |
| HCESC10 56K 1x | 56 | 55 | 350 | 1 | 1500 | 15 (8MHz) |
| HCESC10 M47 1x | 470 | 400 | 440 | 0.4 | 1500 | 33 (5MHz) |

To Order

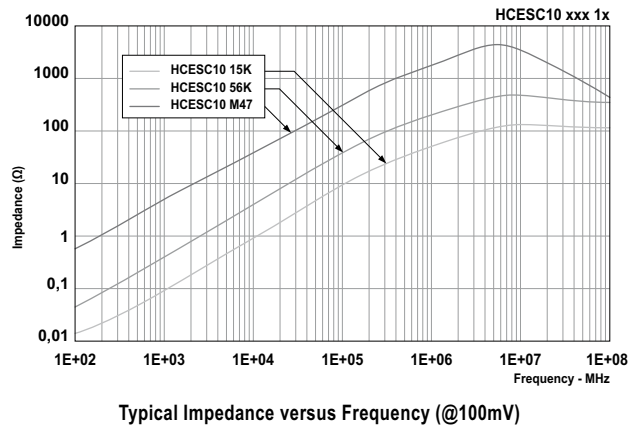
HCESC10 ### 1x

| HCESC10 | ### | 1 | x |
|---------|------------------|---------|---|
| Range | Inductance Value | Version | x = S for Surface mount x = P for through hole |

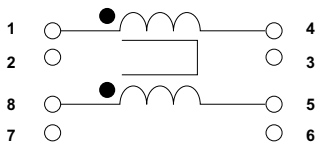
Typical Dimensions (mm)



Response Curves

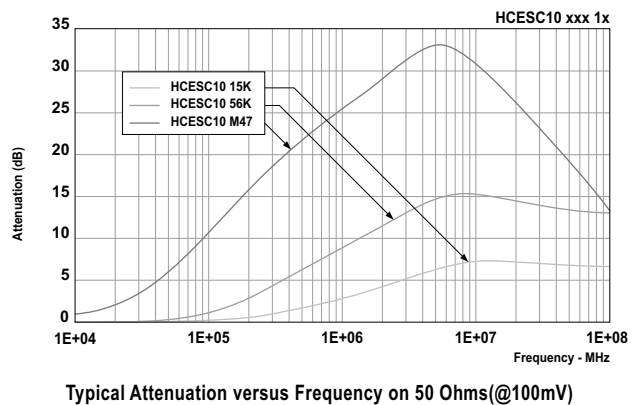


Connections



Packaging

Individually packed in a 160x137x55 cardboard box.
 40 parts on 2 layers



Data Line EMI Filters - DLEF 42 Series



These filters virtually eliminate conducted EMI in data lines. They provide excellent common-mode noise attenuation from 15 MHz to 300 MHz whilst passing data signals below 300 MHz without attenuation.

- Applied standards: ECSS-Q-ST-70-02C, MIL-STD-202, DO-160 and ESCC 3201 generic specification for space products
- Suited for IR and vapor reflow soldering
- Materials meet UL94-V0 rating
- Operation temperature range: -55°C to +110°C
- Weight: 1.5gram

Electrical Data

| ID Code | Number of lines | Max. Current mA | L/winding μ H | RDC max $m\Omega$ | Isolation Vrms |
|---------------|-----------------|-----------------|-------------------|-------------------|----------------|
| DLEF42 020 1S | 2 | 100 | 5 | 250 | 250 |

Application

Digital video signal filtering for CCD acquisition

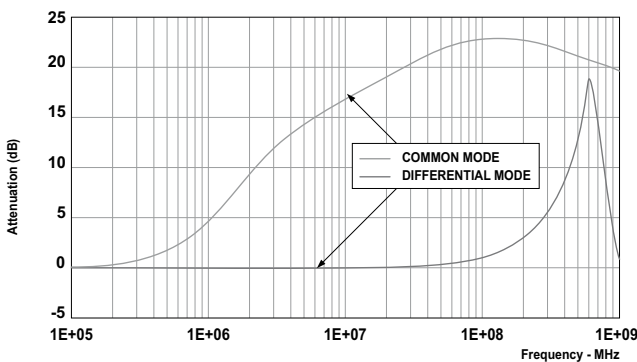
To Order

| | | | DLEF42 020 1S | |
|--------|--------------------|---------|-----------------------|--|
| DLEF42 | 020 | 1 | S | |
| Range | Number of windings | Version | S = for surface mount | |

Packaging

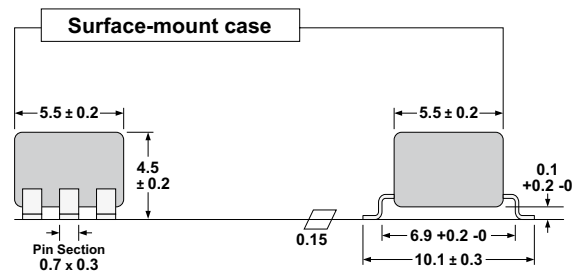
Individually packed in a 160x137x55mm cardboard box. 40 parts on 2 layers

Response Curves

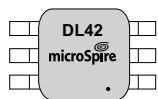


Typical Attenuation versus Frequency on 50hms (@100mV)

Typical Dimensions (mm)

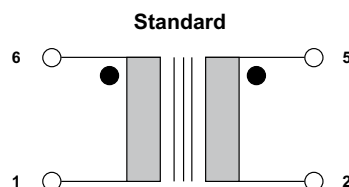


Marking

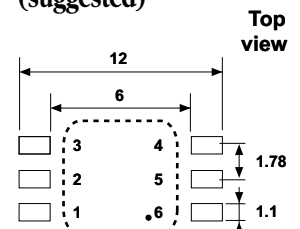


DL42 02 01:
Microspire part number
yyww: Date code

Connections



PCB Layout (suggested)



High Grade Technologies...
RF and Data Magnetics...
Wide Band RF Transformers...

