

## Power line chokes MCTQ23S

### Features

- Rated voltage 300 V AC
- Rated current 0.7 ... 2.3 A (+40 °C)
- Rated inductance 10 ... 100 mH
- High inductance with low resistance
- Very small stray inductance for symmetrical interference suppression
- High pulse-handling capability
- Very good inductance/rated current ratio
- Low height (13.5 mm)
- Suitable for wave soldering

### Construction

- Current-compensated frame core double choke
- Closed magnetic circuit with frame construction made of ferrite
- PHENOLIC coil former (UL94 V-0)
- 4-section winding with direct winding on the core
- Sector winding
- Clearance and creepage distances >4 mm

### Applications

- Suppression of common-mode and differential-mode interferences
- Electronic ballasts for lamps
- High power switch-mode power supplies for consumer electronics

### Terminals

- Base material CP wire
- Hot dipped
- Pins 0.64×0.64 mm
- Lead spacing 20×22.6 mm

### Marking

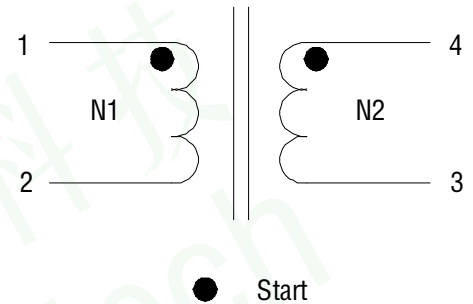
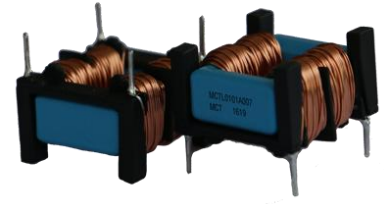
Manufacturer: MCT

Date of manufacture:YYWW

### Ordering code

**MCT Q23S 103 M**

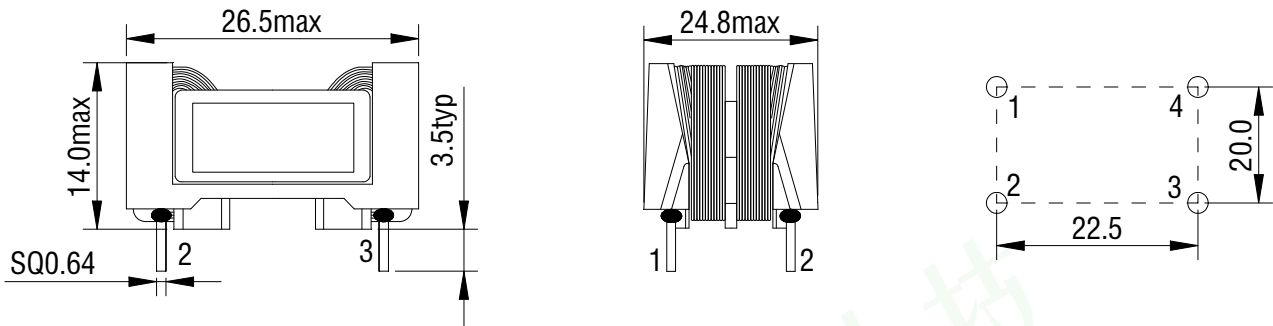
M: +50%/-30%  
 Inductance value code: 103=100mH  
 Series code  
 Hefei Mycoil Technology Co.,LTD



**Delivery mode**

Polystyrene tray, anti-static, in cardboard box

**Dimensional drawing and layout recommendation**



**Technical data and measuring conditions**

Rated voltage  $V_R$ :300 V AC (50/60 Hz)

Hi-pot Test voltage  $V_{test}$ :2000 V AC, 2 s (line/line)

Rated temperature  $T_R$ :+40 C

Rated current  $I_R$ :Referred to 50 Hz and rated temperature,see the data table

Rated inductance  $L_R$ :Measured with LCZ1062 at 10 kHz/0.1 mA, +20°C.Inductance is specified per winding.

Inductance tolerance:  $\begin{matrix} +50\% \\ -30\% \end{matrix}$  @+20°C

Solderability (lead-free):Sn96.5Ag3.0Cu0.5: +(245±5)°C, (3±0.3) s

Wetting of soldering area≥95%

Resistance to soldering heat(wave soldering): +(260±5) °C, (10±1) s

**Characteristics table**

MCT PN	$I_R$ :A	$L_R$ :mH	$L_{stray}$ typ: uH	DCR:mΩ
MCTQ23S102M	0.70	100	2100	1815
MCTQ23S682M	0.90	68	1440	1110
MCTQ23S472M	1.10	47	970	805
MCTQ23S392M	1.20	39	800	670
MCTQ23S272M	1.40	27	550	444
MCTQ23S152M	1.90	15	311	280
MCTQ23S101M	2.30	10	212	190

The core M10 with AL=4600±30% and M12 with AL=5000±30% can be selected.

We can design it for you.Welcome to contact us:sales@mycoiltech.com.