

# SMD EMI Filters

## Common Mode Choke



[www.token.com.tw](http://www.token.com.tw)

### ► Preview

Token EMI filters SMD common mode choke TCPWC series are primarily designed for choking power lines and conform to the RoHS compliant and Lead-free. SMD choke EMI filters feature with ultra-compact size, wide inductance selection, and low-resistance coils. SMD TCPWC can be customized designs and tighter tolerances available on request.

Token's TCPWC taking advantage of the latest winding technology consists ferrite core and a pair lines enabling the most effective in noise suppression designs. Feature high common-mode impedance at noise band and low differential-mode impedance at signal band. Low differential-mode impedance with high coupling factor, there is almost no distortion on high speed signal.

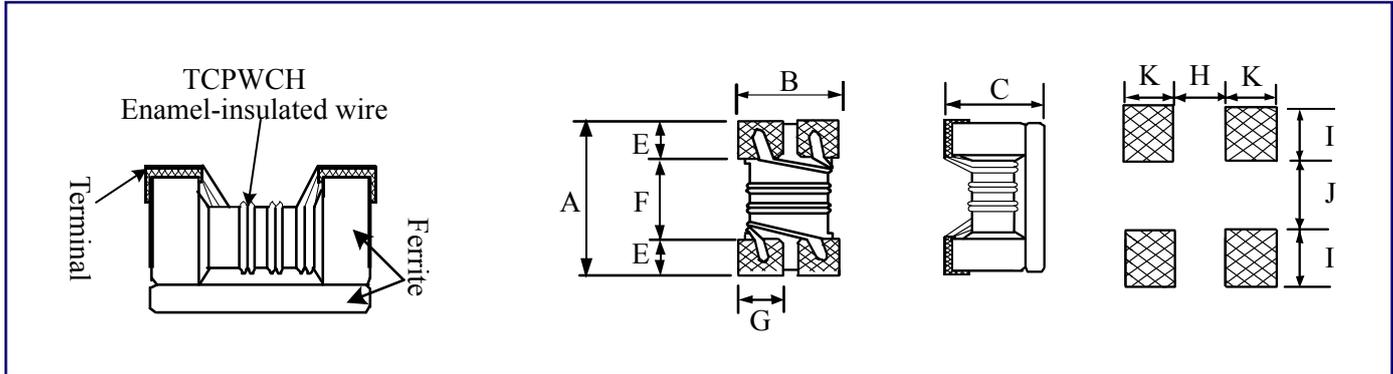
Application of SMD choke EMI filters specific designs also available including different inductance values and Q specifications adjusted to frequency requirements.

Token will also produce devices outside these specifications to meet customer requirements, with comprehensive application engineering and design support available for customers worldwide.

### Applications :

- USB Line for Personal Computers and Peripheral.
- IEEE 1394 Line for Personal Computers ,DVC ,STB.
- LCD Panels. Low-Voltage Differential Signal (LVDS).
- EMI Radiation Noise Suppression for Any Electronic Device.

## Configurations & Dimensions



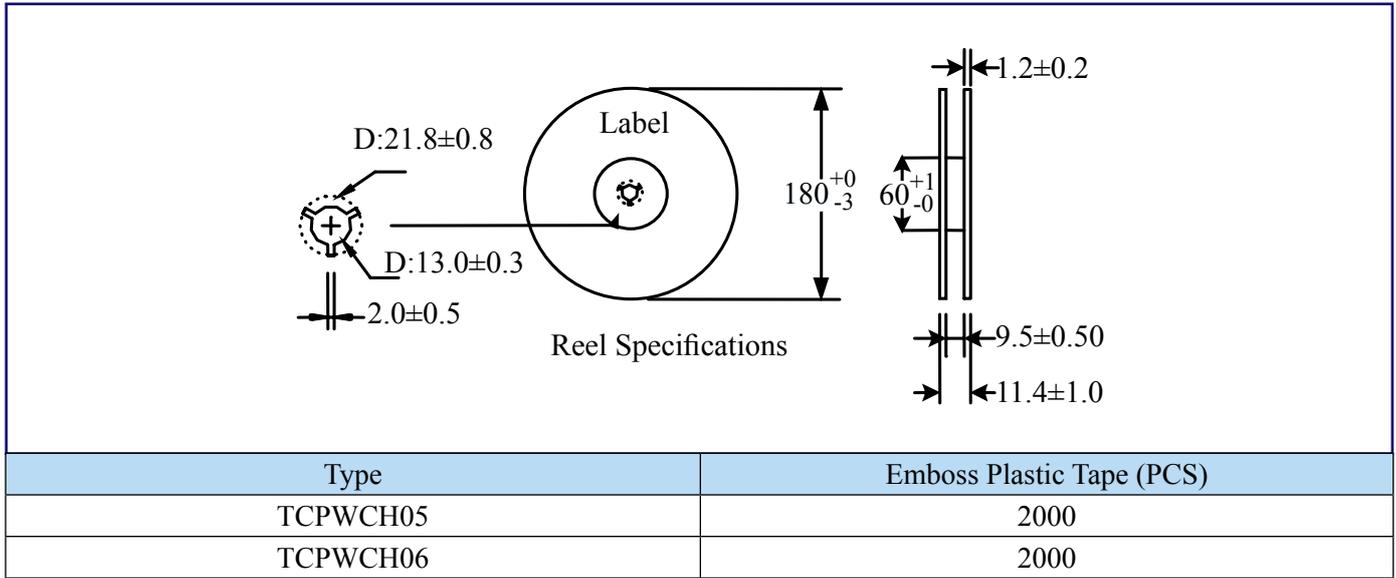
TYPE	A	B	C	E	F	G	H	I	J	K
TCPWCH05	2.0±0.2	1.2±0.2	1.2±0.2	0.45	1.2	0.4	0.8	0.4	0.4	0.90
TCPWCH06	3.2±0.2	1.6±0.2	1.8±0.2	0.60	2.0	0.6	1.6	0.6	0.4	1.05

## Electrical Characteristics

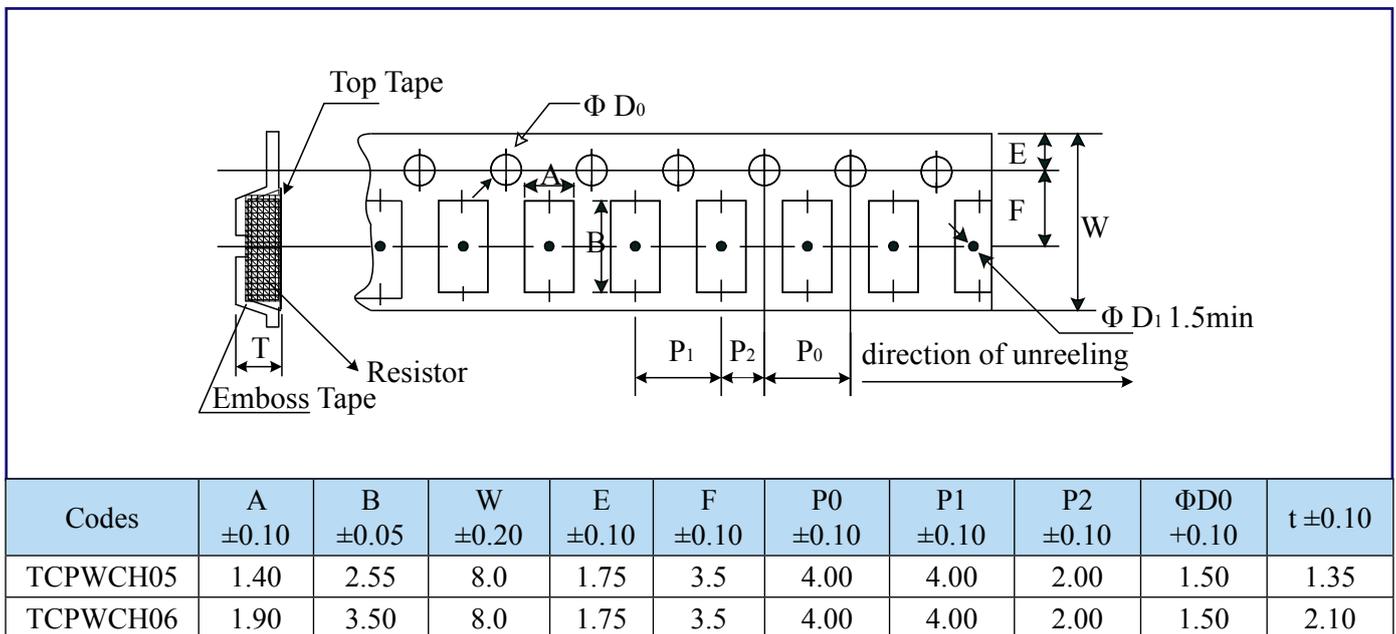
Part Number	Impedance (Ω) 100MHz	DCR (Ω)(max)	Rated Current (mA)(max)	Rated Voltage (V)(DC)	Withstanding Voltage (V)(DC)	Insulation Resistance (MΩ)(min)
TCPWCH05MT670	67	0.25	400	50	125	10
TCPWCH05MT900	90	0.35	330	50	125	10
TCPWCH05MT121	120	0.30	370	50	125	10
TCPWCH05MT181	180	0.35	330	50	125	10
TCPWCH05MT201	200	0.35	330	50	125	10
TCPWCH05MT261	260	0.40	300	50	125	10
TCPWCH05MT371	370	0.40	280	50	125	10
TCPWCH06MT900	90	0.30	370	50	125	10
TCPWCH06MT161	160	0.40	340	50	125	10
TCPWCH06MT261	260	0.50	310	50	125	10
TCPWCH06MT601	600	0.80	260	50	125	10
TCPWCH06MT102	1000	1.00	230	50	125	10
TCPWCH06MT222	2200	1.20	200	50	125	10

**Note:** Operating Temp.: -40°C+85°C.

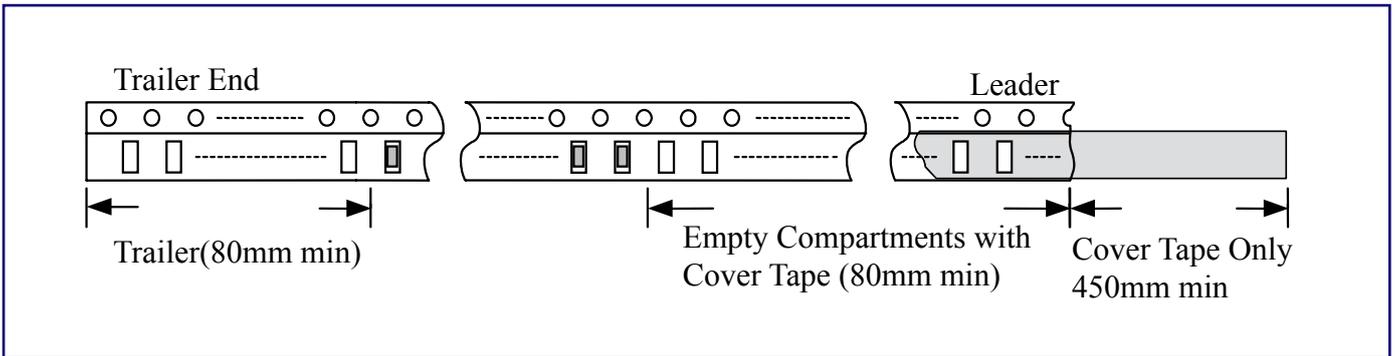
## ► Packaging Quantity & Reel Specifications



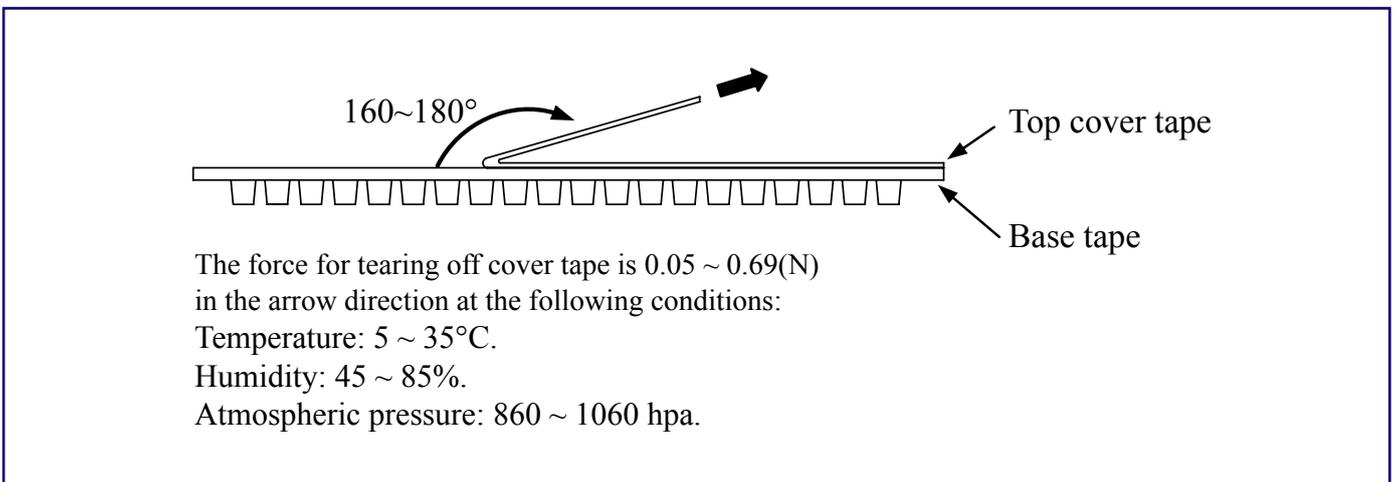
## ► Emboss Plastic Tape Specifications



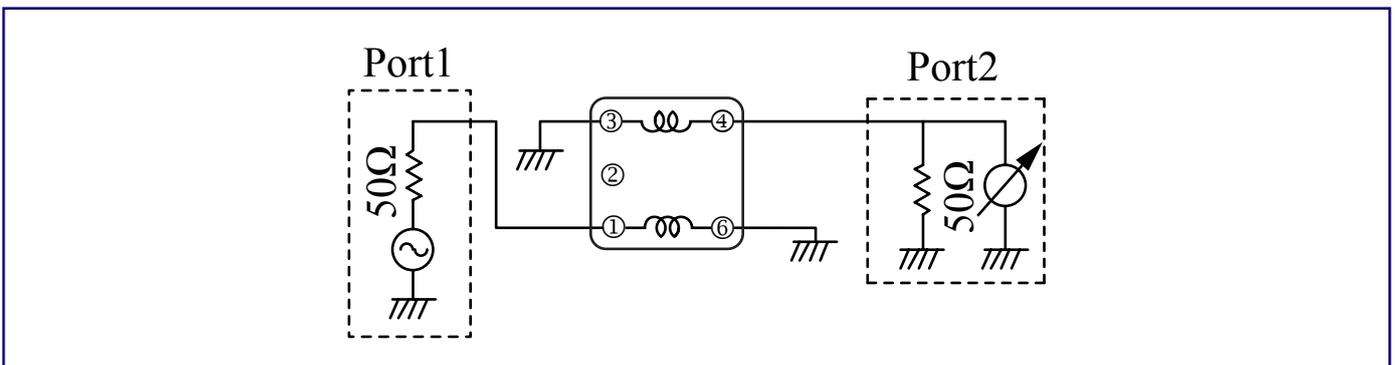
## ▶ Leader / Tape



## ▶ Peel-off Force



## ▶ (TCB4F - 617DB) Electrical Characteristics C





## How to Order

TCPWC	H	05	M	TR	900
❶	❷	❸	❹	❺	❻

❶ Part Number: TCPWCH05, TCPWCH06

❷ Shielding Type

Code	Shielding Type
H	Shielding

❸ Dimensions (L×W) (mm)

Code	Dimensions(L×W)	EIA
05	2.10×1.20	EIA0805
06	3.20×1.50	1206

❹ Impedance Tolerance: M (±20%)

❺ Packaging

Code	Packaging
TR	Taping Reel
p	Bulk

❻ Impedance

Code	Impedance
900	90Ω
121	120Ω
102	1000Ω
222	2200Ω

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