

# SMD Balun Surface Mount Transformer

## SMD Balun Transformer (TCB5FL) Common Mode

### ► Preview

A Balun is a device which converts balanced impedance to unbalanced and vice versa. In addition, baluns can also provide impedance transformation, hence the name Balun Transformers.

Token utilizes the latest winding technology using paired wires for high uniformity and enabling the most cost-effective designs in manufacturing SMD balun transformer products.

Token SMD common mode TCB5FL balun transformer series are primarily designed for choking power lines and conform to the RoHS compliant and Lead-free. SMD TCB5FL feature with ultra-compact size, wide inductance selection, and low-resistance coils. SMD TCB5FL can be customized designs and tighter tolerances available on request.

Application of SMD balun transformer specific designs also available including different inductance values and Q specifications adjusted to frequency requirements. Base pins are end processed to allow direct mounting on PCB. Ideal for use in double balanced mixers, and as broad band transformers, transistors and for impedance conversion.

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

### Features :

- Pair wire coil for high stability.

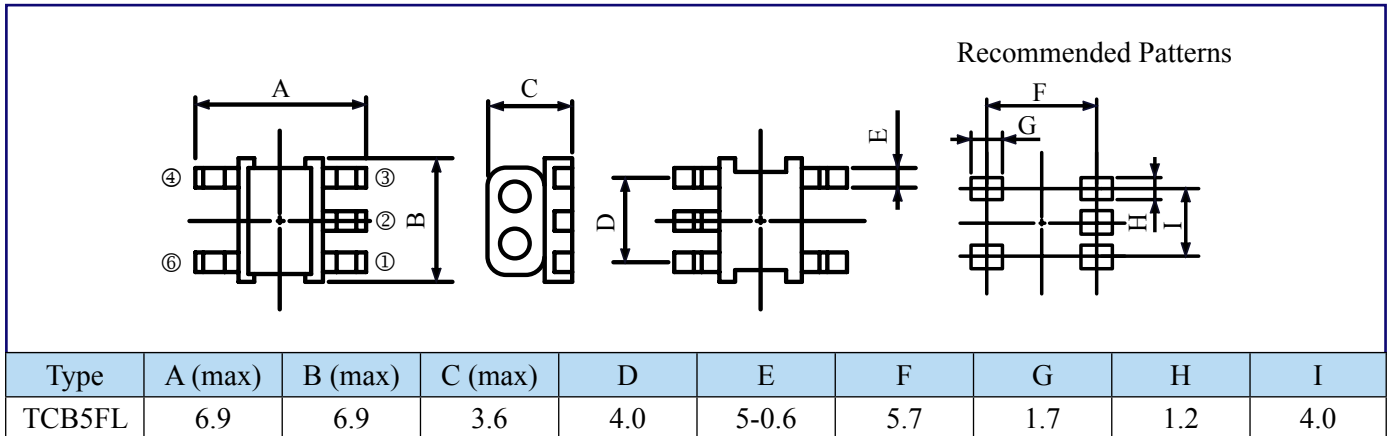
### Applications :

- Double Balance Mixers, Broad-Band Transformers;
- Impedance Transformers, Balun Transformers , etc..



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## Configurations & Dimensions

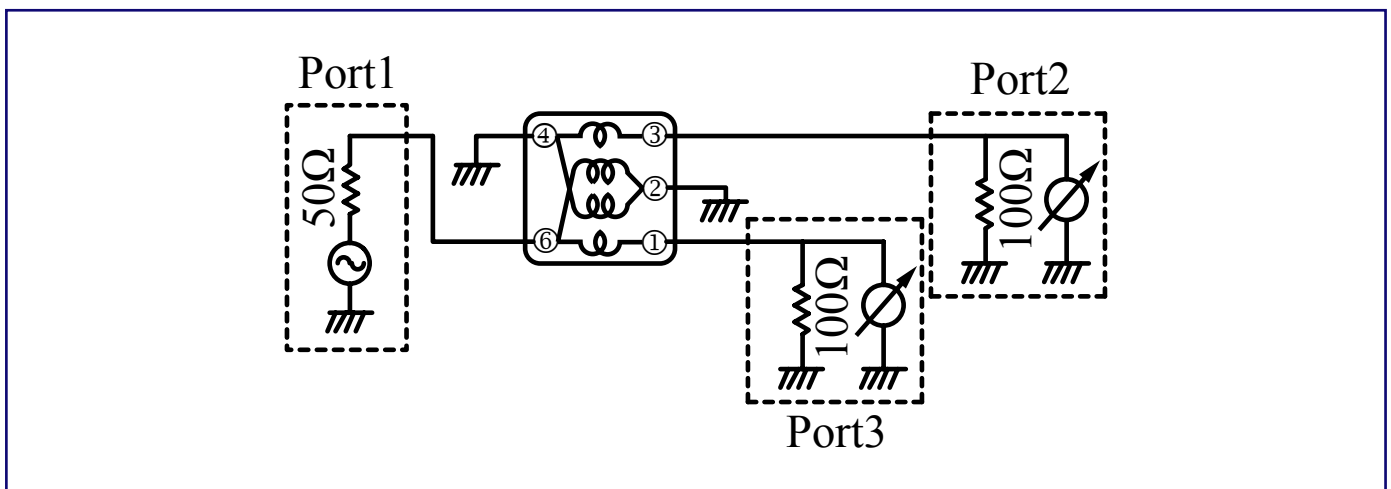


**Note:** Design as Customer's Requested Specifications.

## (TCB5FL) Common Mode Electrical Characteristics

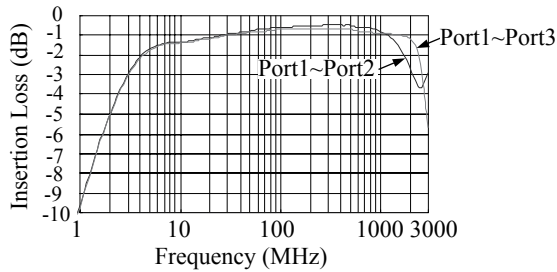
Part Number	Winding Turns 1-6=2-4=2-6=3-4	$\mu\text{iac}$
TCB5FL - 616DB1196	2 1/2 T	300
TCB5FL - 616DB1197	3 1/2 T	300
TCB5FL - 616DB1198	4 1/2 T	300

## (TCB4F - 617DB) Test Circuit A

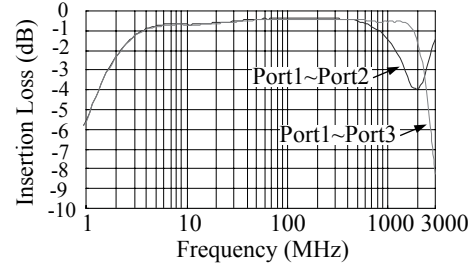


## ▶ (TCB5F - 458DB) Typical Characteristics

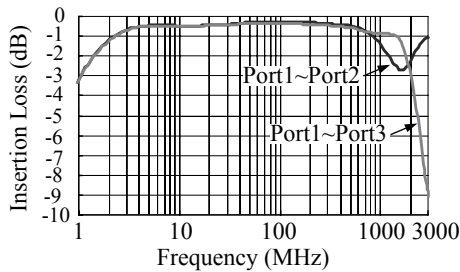
TCB5F-616DB-1196 (Impedance Ratio=50Ω:200Ω)



TCB5F-616DB-1197 (Impedance Ratio=50Ω:200Ω)



TCB5F-616DB-1198 (Impedance Ratio=50Ω:200Ω)



## ▶ How to Order

TCB5F

❶

616DB1196

❷

❶ Part Number: TCB5FL

❷ Type

Code	Type
616DB1196	Frequency mixer
616DB1197	Frequency mixer

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