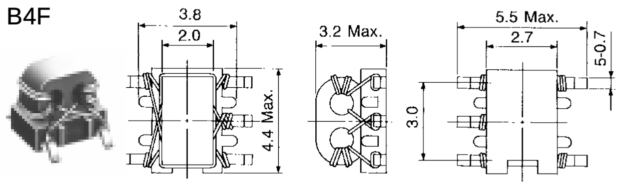
Balun Transformers for Surface Mounting

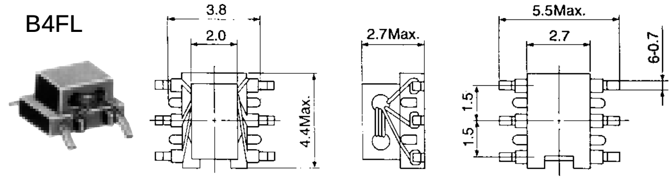
TYPE B4F: Surface Mount
TYPE B4FL: Surface Mount

B4F



Unit: mm

B4FL



Unit: mm

Features

- Pair wire coil for high stability.
- Base pin terminal treated, allowing mounting 'as is' on a PCB.

Applications

- Double balance mixers, broad-band transformers, impedance transformers, etc.
- The following application notes are available from Toko America
  - Balun Transformers as Directional Couplers
  - Balun Transformers for Mixers, Frequency Multipliers, and Broadband Impedance Matching
  - Balun Transformers for Power Combining and Signal Splitting

STANDARD TRANSFORMERS SELECTION GUIDE

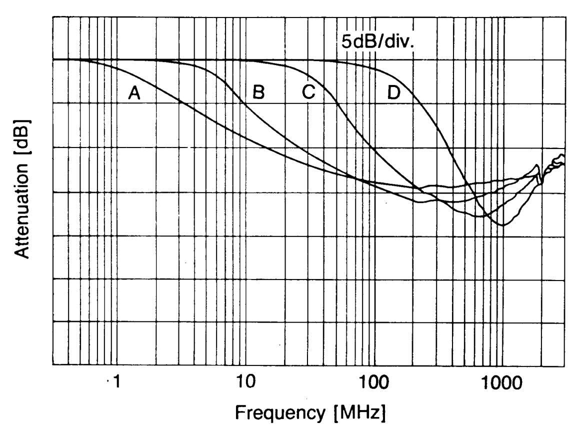
TYPE B4F

TOKO Part Number	Number of Turns per Winding	Operating Frequency Range (MHz)	Insertion Loss (dB)	Fig.
Double Balanced Mixer				
617DB-1007	2	25 ~2000	3	1
617DB-1009	3	6 ~2000	3	1
617DB-1006	3	150 ~2300	3	1
617DB-1010	4	3.5~2000	3	1
617DB-1018	5	2 ~2000	3	1
Frequency Mixer				
617PT-1025	1	—		2
617PT-1019	2	8 ~ 750	3	2
617PT-1026	3	3.5~ 700	3	2
Balun Transformer				
617DB-1021	1 1/2	20 ~ 750	3	3
617DB-1022	2 1/2	4.5~3300	3	3
617DB-1023	3 1/2	2.3~2700	3	3
617DB-1024	4 1/2	1.5~2400	3	3
Power Divider/Combiners				
617DS-1079	2	1300 ~1700	IN to OUT-1,2 4.5dB max.	5
617DS-1076	3	800 ~1000	IN to OUT-2 (ISOLATION) 15dB min.	5
Splitter/Directional Coupler				
617PS-1056	6	5 ~1000	IN to OUT 1: 0.5dB IN to OUT 2: 16dB	7

TYPE B4FL

TOKO Part Number	Rated D.C. Current (40ºC)	Characteristics
For Two Line		
844CM-1010	0.71A Typ.	A
844CM-1009	0.71A Typ.	B
844CM-1012	0.71A Typ.	C
844CM-1011	0.71A Typ.	D
For Four Line		
844CM-1014	0.71A Typ.	A
844CM-1013	0.71A Typ.	B
844CM-1016	0.71A Typ.	C
844CM-1015	0.71A Typ.	D
(Two Line) Common mode filter for power supplies		
844CM-1021	1.44A Typ.	-
844CM-1022	0.94A Typ.	-

Typical Characteristics (B4FL)



Pin Connections

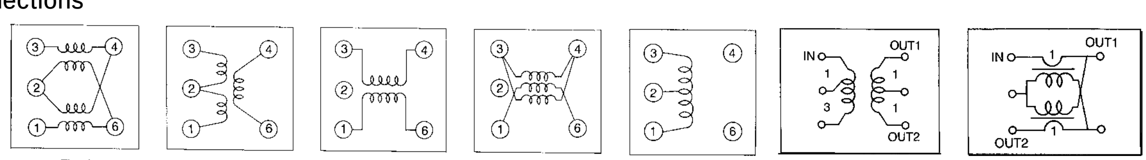


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Distributor / Fig. 6 Directional Coupler / Fig. 7