

Wire Wound Chip Balun Transformer – BW Series

Operating Temp. : -40°C ~+ 85°C



FEATURES

- Winding structure and small size
- Surface mount type
- Low insertion loss at frequency range
- Excellent solderability

APPLICATIONS

- Balanced unbalanced transformation between antenna and cable (TV tuner)

PRODUCT IDENTIFICATION

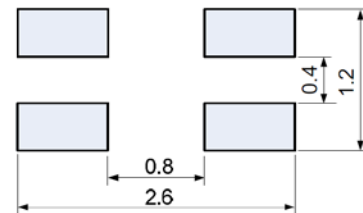
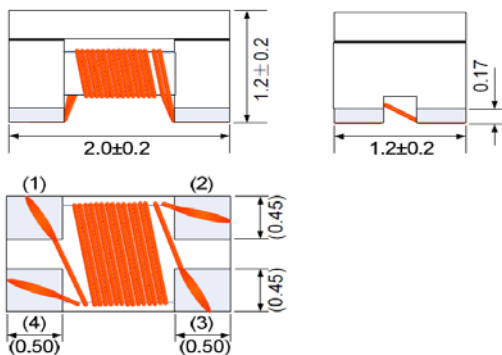
B ①	W ②	21 ③	S ④	75 ⑤	11 ⑥	A01 ⑦	T ⑧	F ⑨
① Type		② Structure		③ External Dimensions (LxW) (mm)				
B	Chip Balun Transformer		W	Winding Type		21	2.0x1.2	
						43	4.5x3.2	
④ Type of Transformer		⑤ Port Impedance		⑥ Impedance Ratio				
S	Standard		75	75Ω		11		1:1
C	Internal Code		50	50Ω				One to One
⑦ Characteristic Code		⑧ Packing		⑨ Hazardous Substance Free Products				
A01		T		Tape Carrier Package		F		
B02								
C01								
D01								
E01								

SHAPE AND DIMENSIONS

BW21S Series

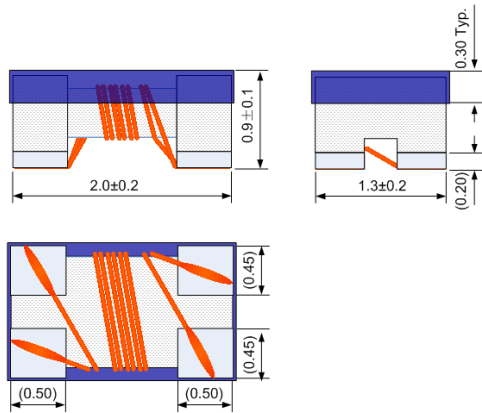
Land Pattern

Unit: mm



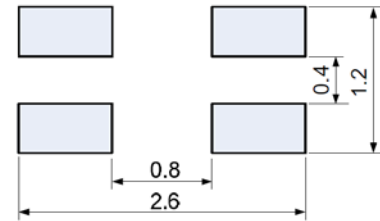
SHAPE AND DIMENSIONS

BW21C Series

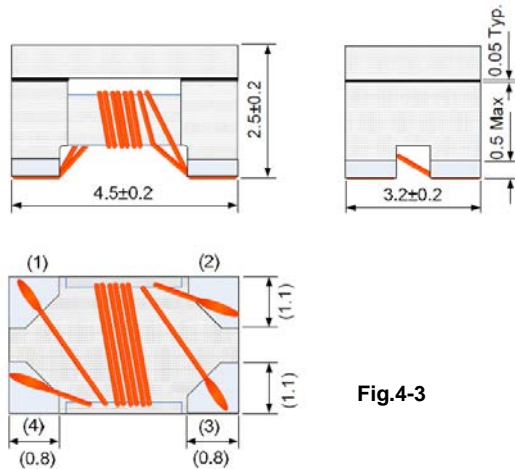


Land Pattern

Unit: mm



BW43S Series



Land Pattern

Unit: mm

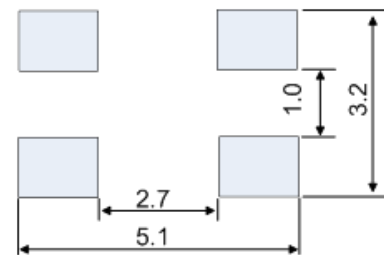


Fig.4-3

SPECIFICATIONS

BW21S TYPE

Part Number	Freq. Range	Port Impedance	Insertion Loss at Freq. Range	CMRR at Freq. Range(Min.)	Rated Power
Units	MHz	Ω	dB	dB	dBm
BW21S7511A01TF	45~870	75/75	1.0	20	27
BW21S5011A01TF	45~870	50/50	1.2	20	27
BW21S7511B02TF	50~1200	75/75	1.2	20	27
BW21S7511C01TF	1000~1500	75/75	1.4	20	27
BW21S7511D01TF	950~2150	75/75	1.5	20	27
BW21S7511E01TF	400~1800	75/75	2.0	10	27

BW21C TYPE

Part Number	Freq. Range	Port Impedance	Inductance	Insertion Loss	Return Loss	DC Resistance	Rated Current	CMRR	Insulation Resistance
Units	MHz	Ω	μ H	dB	dB	Ω	mA	dB	M Ω
BW21C2511A01TF	13.56	25/25	1.0 Min.	1.0 Max.	13 typ.	0.75 Max.	220 Min	47 Min.	10 Min.

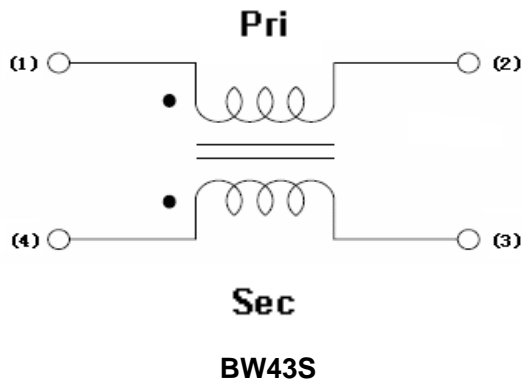
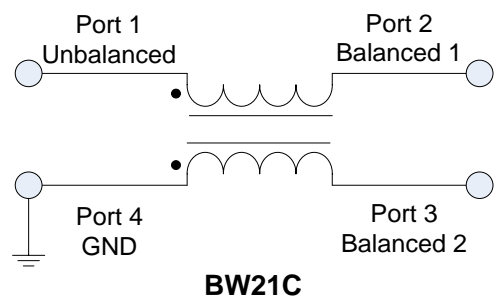
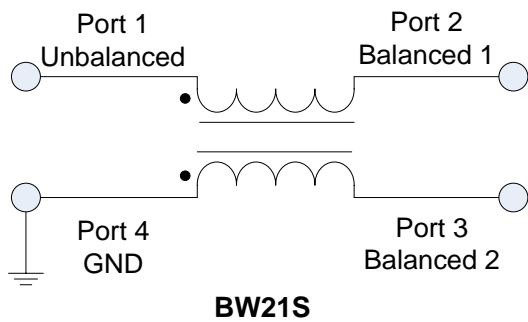
SPECIFICATIONS

BW43S TYPE

Part Number	Freq. Range	Inductance @50MHz	Port Impedance	Insertion Loss	DC Resistance	Rated Current	Rated Voltage	Insulation Resistance (MΩ)
Units	MHz	uH	Ω	dB	Ω	mA	VDC	dB
BW43S5011C01TF	4~200	1.25 Typ	50/50	2.52 Typ	0.40 Max	540 Max	50	10 Min
BW43S5011E01TF	48~645	1.00 Typ	50/50	6.66 Typ	0.15 Max	960 Max	50	10 Min

※Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

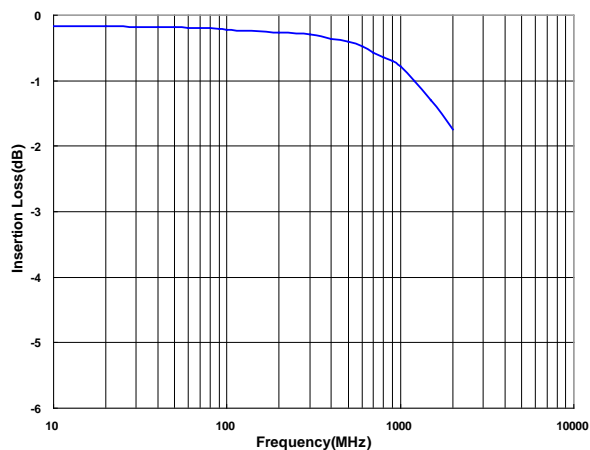
EQUIVALENT CIRCUIT



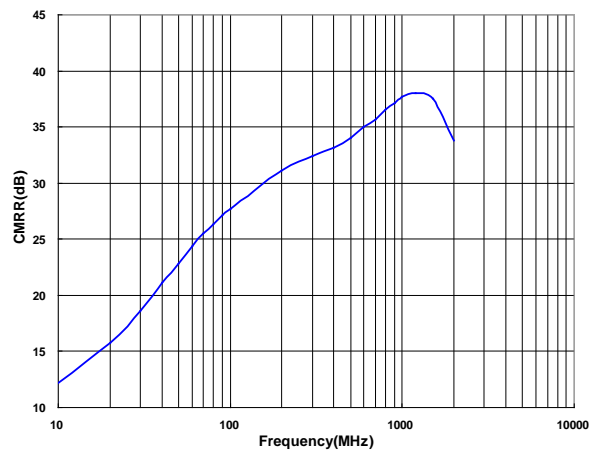
TYPICAL ELECTRICAL CHARACTERISTICS

BW21S7511A01TF

Insertion Loss Characteristics



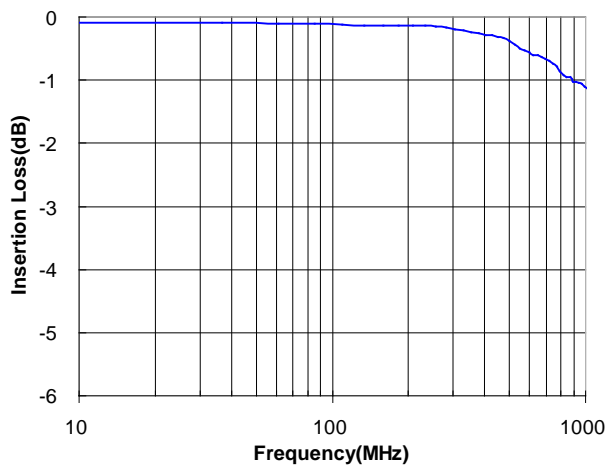
CMRR Characteristics



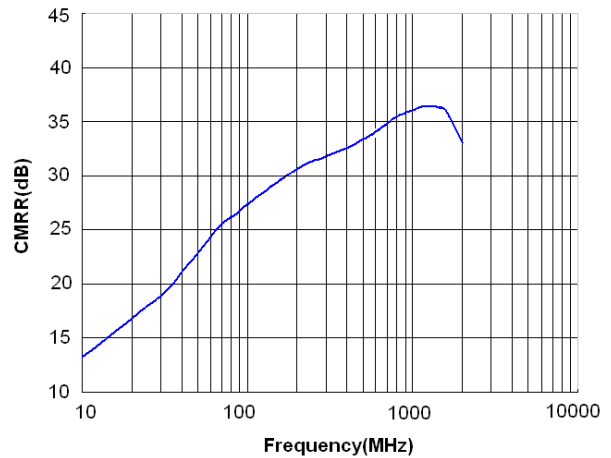
TYPICAL ELECTRICAL CHARACTERISTICS

BW21S5011A01TF

Insertion Loss Characteristics

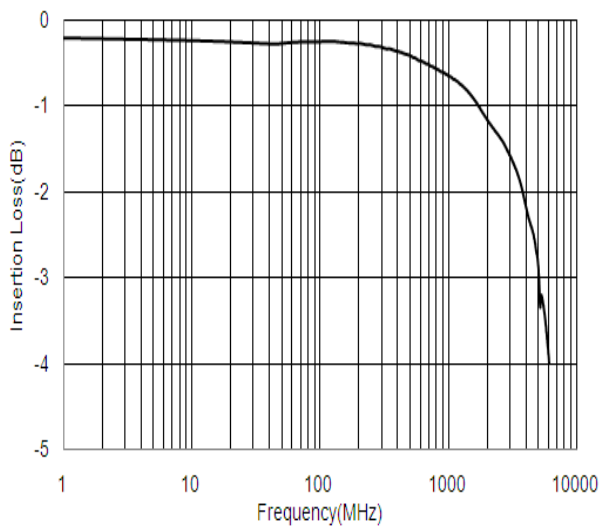


CMRR Characteristics

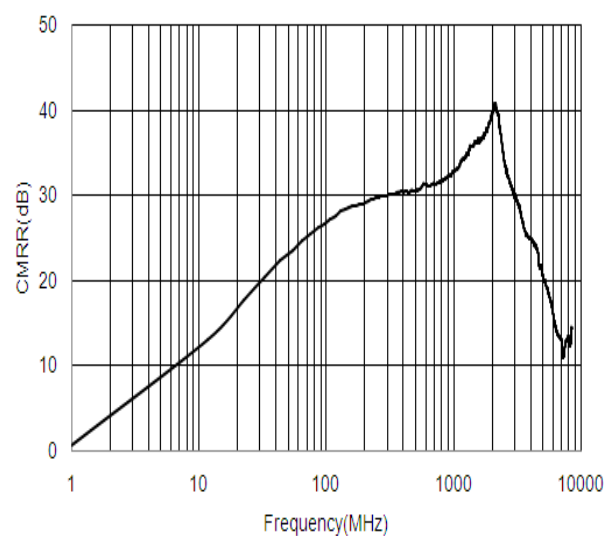


BW21S7511B02TF

Insertion Loss Characteristics

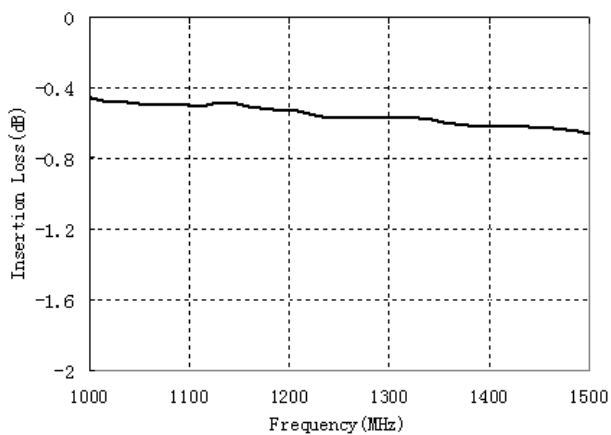


CMRR Characteristics

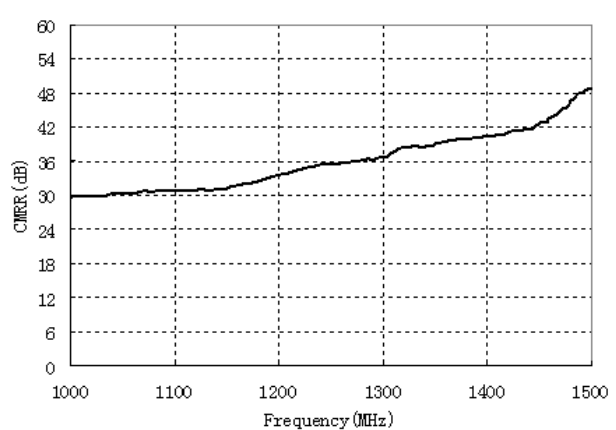


BW21S7511C01TF

Insertion Loss Characteristics



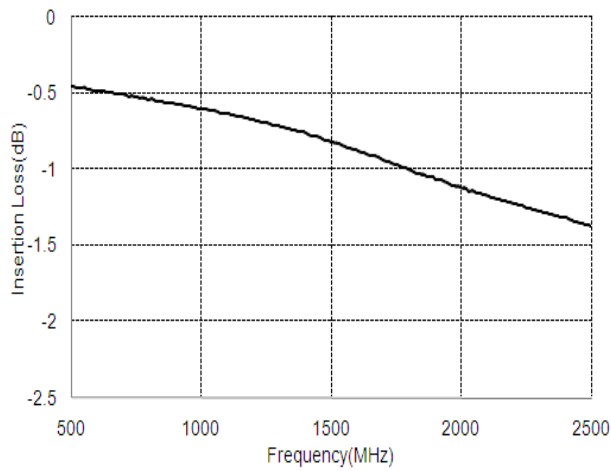
CMRR Characteristics



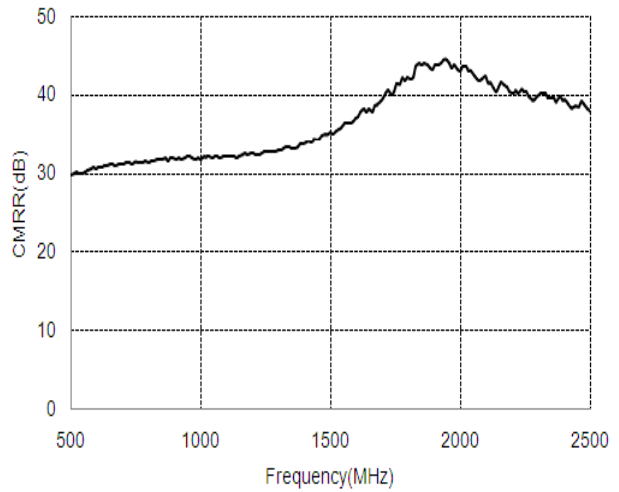
TYPICAL ELECTRICAL CHARACTERISTICS

BW21S7511D01TF

Insertion Loss Characteristics

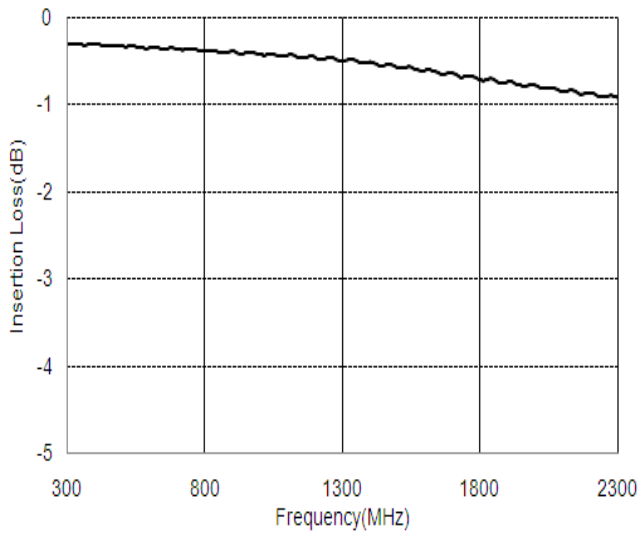


CMRR Characteristics

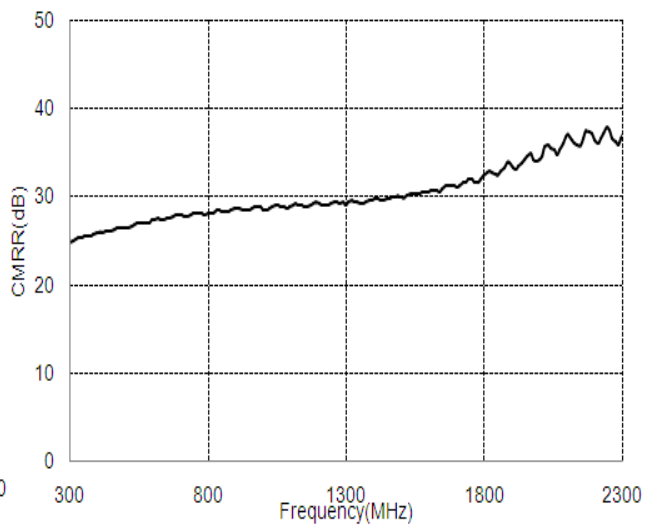


BW21S7511E01TF

Insertion Loss Characteristics

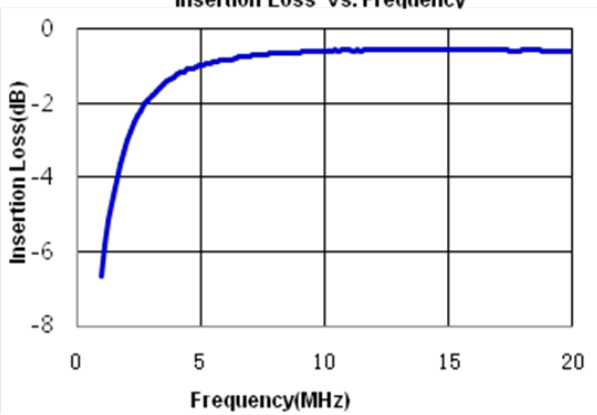


CMRR Characteristics

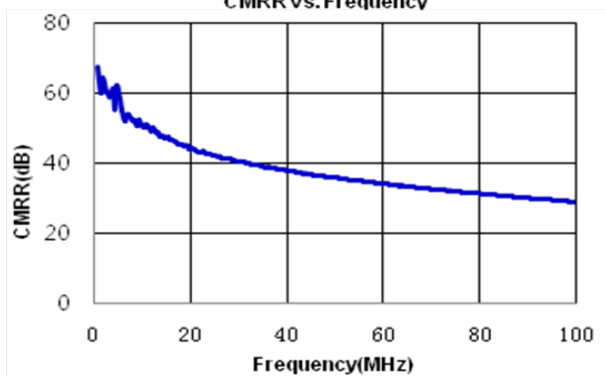


BW21C2511A01TF

Insertion Loss vs. Frequency

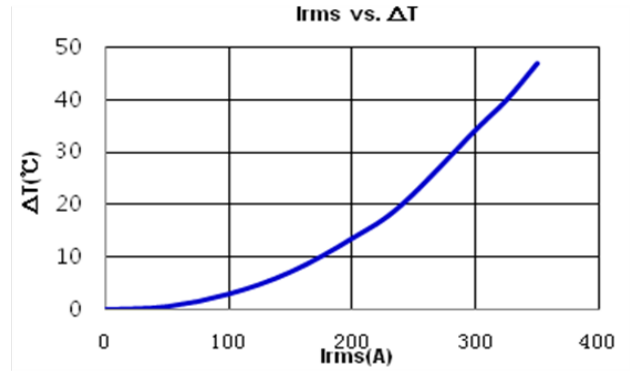
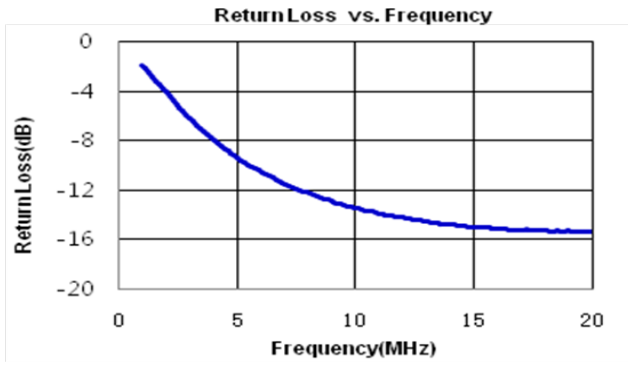


CMRR vs. Frequency



TYPICAL ELECTRICAL CHARACTERISTICS

BW21C2511A01TF



BW43S5011C01TF/BW43S5011E01TF

Insertion Loss Characteristics

