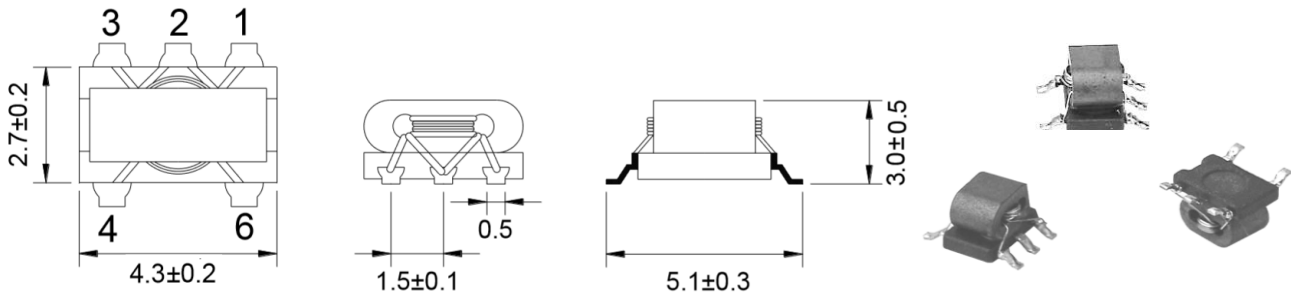


Balun Transformers - YB006T Series

EXTERNAL DIMENSIONS

(Unit: mm)



Part Number	Winding Turns	Operating Frequency Range	Insertion Loss	Pin Connection Fig.
DOCSIS 2.0				
YB006T-33T-1S	3 x 2 6	5MHz ~ 100MHz	1.1 dB Max.	
DOCSIS 3.0				
YB006T-226T-3S	2 x 2 6	5MHz ~ 200MHz	2.0 dB Max.	
YB006T-33T-5S	3 x 2 6	5MHz ~ 200MHz	6.5 dB Max.	2
DOCSIS 3.1				
YB006T-113TS	1 x 2 3	5MHz ~ 204MHz	1.0 dB Max.	
YB006T-22612	2 x 2 6	5MHz ~ 300MHz	2.0 dB Max.	
YB006T-33611	3 x 3 6	5MHz ~ 300MHz	1.3 dB Max.	
Double Balanced Mixer				
YB006T-1007AS	2	25MHz ~ 2000MHz		
YB006T-1009AS	3	6. MHz ~ 2000MHz		
YB006T-1006AS	3	150MHz ~ 2300MHz	3.0 dB Max.	1
YB006T-1010AS	4	3.5MHz ~ 2000MHz		
YB006T-1018AS	5	2MHz ~ 2000MHz		
Balun transformer				
YB006T-1021AS	1.5	20MHz ~ 750 MHz		
YB006T-1022AS	2.5	4.5MHz ~ 3300MHz		
YB006T-1023AS	3.5	2.3MHz ~ 2700MHz	3.0 dB Max.	3
YB006T-1024AS	4.5	1.5MHz ~ 2400MHz		
Distributor				
YB006T-1079AS	2	1300MHz ~ 1700MHz	IN to OUT-1,2 4.5dB Max.	
YB006T-1076AS	3	800MHz ~ 1000MHz	OUT-1 to OUT-2 (isolation) 15dB Min.	4

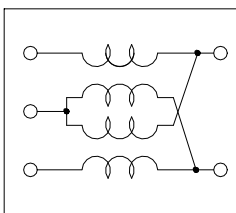
Features

- Windings use paired wires for high uniformity.
- Base pins are end processed to allow direct mounting on PCB.

Applications

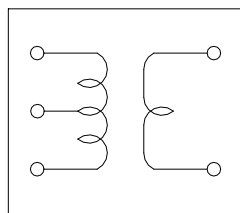
- Double balanced mixers, broad-band transformers, impedance transformers, etc.

Schematic



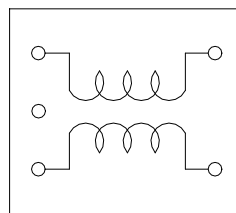
Double Balanced

Fig.1



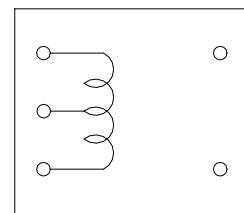
Coupled Transformer

Fig.2



Balun Transformer

Fig.3



Distributor

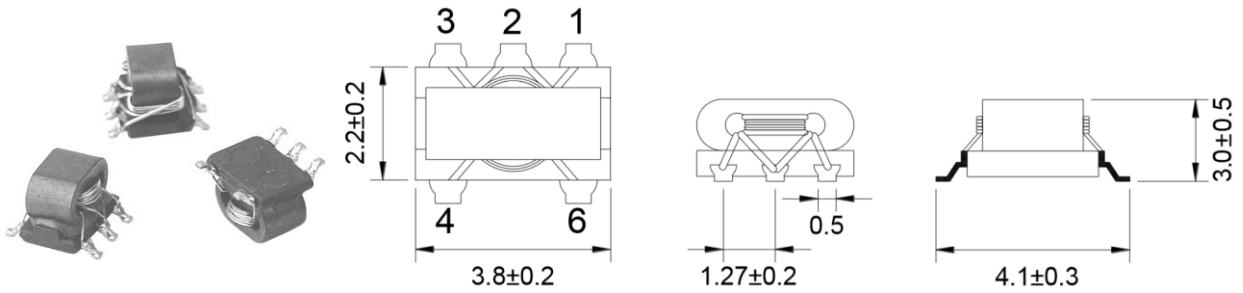
Fig.4

SMT

Balun Transformers – YB081T Series

EXTERNAL DIMENSIONS

(Unit: mm)



Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
DOCSIS 3.0			
YB081T-116TS	1 x 2 6	5MHz~85MHz	1.0 dB Max.
DOCSIS 3.1			
YB081T-114T-1S	1 x 1 4	5MHz~300MHz	4.5 dB Max.

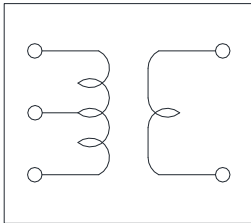
Features

- Windings use paired wires for high uniformity.
- Base pins are end processed to allow direct mounting on PCB.

Applications

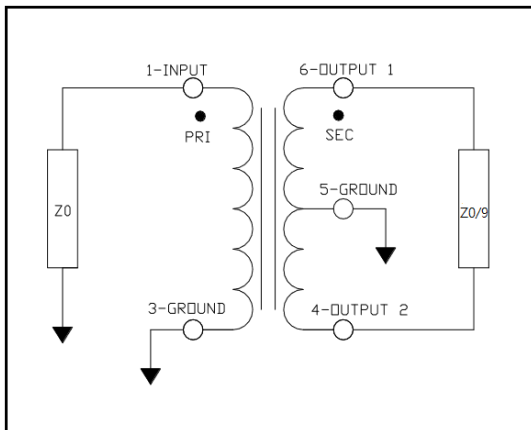
- broad-band transformers, impedance transformers

Schematic

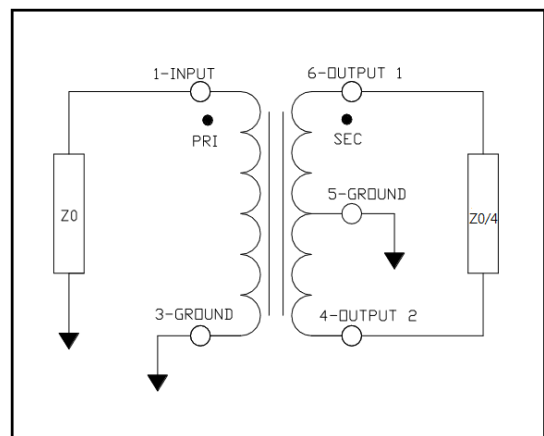


Application Circuit

YB081T-116TS



YB081T-114T-1S

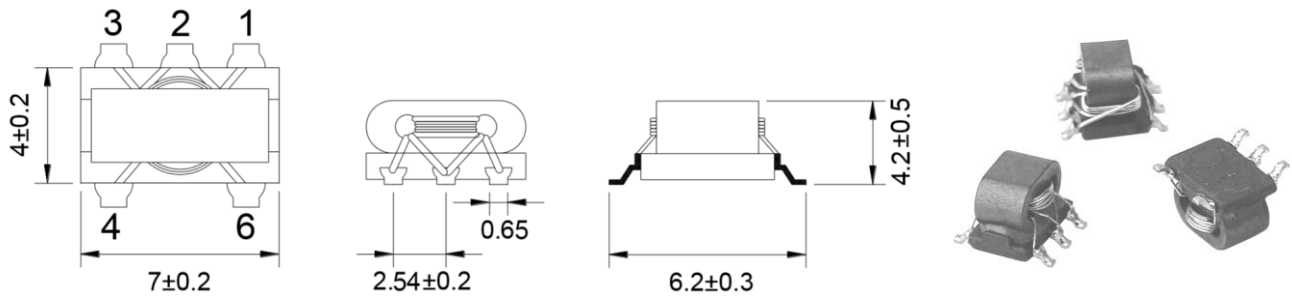


SMT

Balun Transformers –YB082T Series

EXTERNAL DIMENSIONS

(Unit: mm)



Part Number	Winding Turns	Operating Frequency Range	Insertion Loss
DOCSIS 3.0 YB082T-114TS	1 x 2 4	5MHz~200MHz	3.1dB Max.

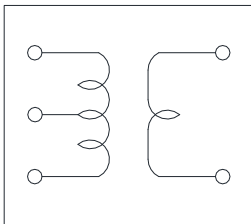
Features

- Windings use paired wires for high uniformity.
- Base pins are end processed to allow direct mounting on PCB.

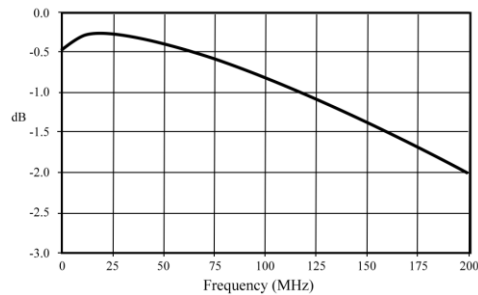
Applications

- broad-band transformers, impedance transformers.

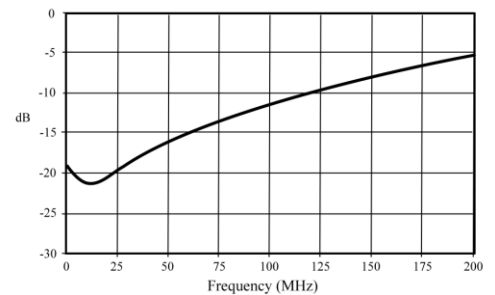
Schematic



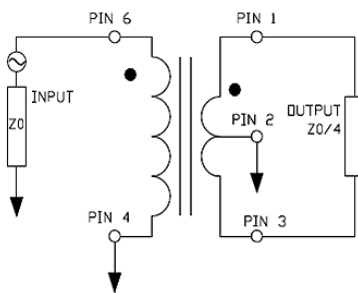
Insertion Loss :



Return Loss :



Application Circuit



Parameter	Conditions	Units	Min.	Typ.	Max.
Insertion Loss (pin6-pin1)	5-50 MHz	dB	-	0.4	0.8
	50-150 MHz	dB	-	1.0	2.2
	150-200 MHz	dB	-	2.0	3.1
Input Return Loss (pin6)	5-25 MHz	dB	17	20	-
	25-50 MHz	dB	12	15	-
	50-150 MHz	dB	5	9	-
	150-200 MHz	dB	3	5	-

SMT