

BALUN TRANSFORMERS - General Purpose 1 kHz - 125 MHz

Baluns, consisting of one unbalanced and one centertapped balanced winding, transfer power bi-directionally and are matched in both directions.

North Hills' baluns are precision-engineered for low insertion and return losses. Superior balance is achieved by inherently symmetrical construction.

Bandwidths extend from low-frequency cut-off (LCO), where response is down no more than 3 dB with respect to that at midband to high frequency cut-off (HCO), where the return loss is better than 18 dB.

*North Hills Application Note 151 - "Wideband Transformers" provides further information on the subject of balun transformers.



North Hills Balun Transformers provide quick, cost-effective solutions.

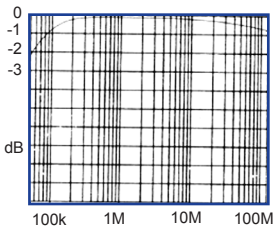
Features:

- 50 and 75 ohm models for a wide range of balanced impedances
- Superior electrical performance
- All case styles are hermetically sealed metal cans

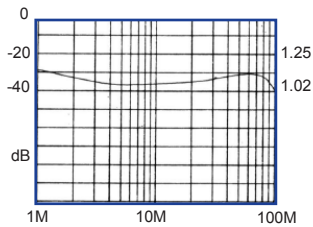
Benefits:

- Precision-engineered
- Low insertion and return losses

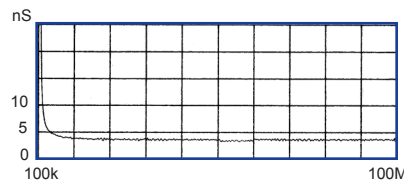
Typical Characteristics (Model 0300):



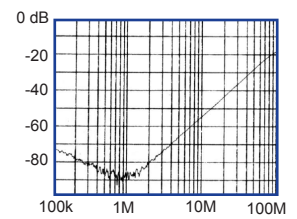
Transmission Loss
50 kHz - 125 MHz



Return Loss
1 MHz - 100 MHz



Group Delay
100 kHz - 100 MHz



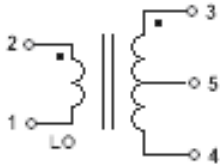
Common Mode Rejection
100 kHz - 100 MHz



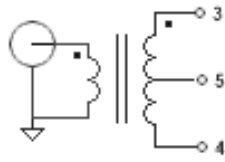
BALUN TRANSFORMERS - General Purpose

North Hills baluns are precision-engineered for low insertion and return losses

Simplified Schematics:



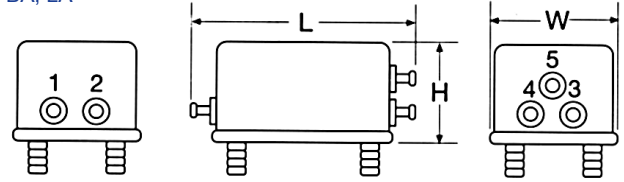
Case BA, HB, LA



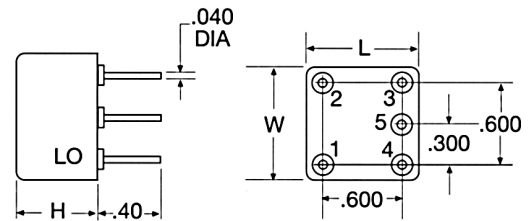
Case BB, LB

Case Styles:

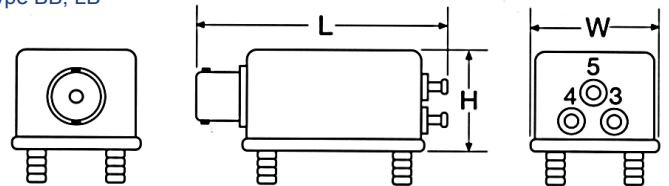
Type BA, LA



Type HB



Type BB, LB



Low Power Series (1W)

Series	Radio Frequency		Medium Frequency		Video Frequency		
Case	BA, BB, HB		BA, BB		LA, LB		
LCO	100 kHz		10 kHz		1 kHz		
Impedance Unb. Bal	Model #	HCO (MHz)	Model #	HCO (MHz)	Model #	HCO (MHz)	
50	50	0001	125	0010	80	0009	25
	75	0101	125	0111	80	0104	25
	90	0200	125	0202	60	0203	20
	100	0300	100	0301	60	0311	20
	124	0307	100	0302	60	0306	20
	135	0310	100	0312	60	0303	18
	150	0400	100	0401	60	0415	15
	200	0500	100	0520	60	0511	15
	300	0501	100	0521	50	0517	12
	450	0600	65	0602	40	0603	10
	600	0700	65	0703	32	0706	8
	800	0800	60	0801	25	0802	7
1200	0900	30	0902	15	0904	6	
75	50	1000	100	1001	60	1002	25
	75	1100	100	1112	60	1102	25
	90	1200	100	1201	60	1202	20
	100	1300	100	1310	60	1314	20
	110	1320	100	1319	60	1318	20
	124	1302	100	1311	60	1301	20
	135	1317	100	1315	60	1312	20
	150	1400	100	1405	60	1404	16
	200	1500	100	1513	60	1516	15
	300	1501	100	1514	60	1502	15
	450	1600	60	1601	40	1602	12
	600	1700	60	1707	32	1704	10
	800	1800	30	1801	20	1802	10
	1200	1900	30	1905	15	1902	9
	1850	1906	15	1901	8	1903	6

Type	W (in.)	L (in.)	H (in.)	Mtg. Ctrs. A	Mtg. Ctrs. B	Stud Size	Recm. Mtg. Hole
BA	1.3	2.3	1.15	.81	1.37	4-40 x .37	.147
LA	1.7	2.8	1.25	1.00	1.50	6-32 x .37	.173
HB	0.9	0.9	0.7	-	-	-	.052
BB	1.3	2.6	1.15	.81	1.37	4-40 x .37	.147
LB	1.7	3.2	1.25	1.00	1.50	6-32 x .37	.173

ORDERING INFORMATION:

To order, please specify model number followed by case designation, such as 0300BB.