

040-0092 Category 7 Test Balun

- Bandwidth to 650 MHz with precise balance
- Designed for laboratory or production line testing
- Drop-in replacement for 040-0093 Cat. 6 balun
- Gold plated connectors and replaceable sockets
- Center port for balance testing without changing setup

INSERTION LOSS:

- 1.8 dB Max. – 1 MHz to 15 MHz
- 1.2 dB Max. – 15 MHz to 250 MHz
- 1.4 dB Max. – 250 MHz to 350 MHz
- 1.8 dB Max. – 350 MHz to 650 MHz

RETURN LOSS (bi-directional:)

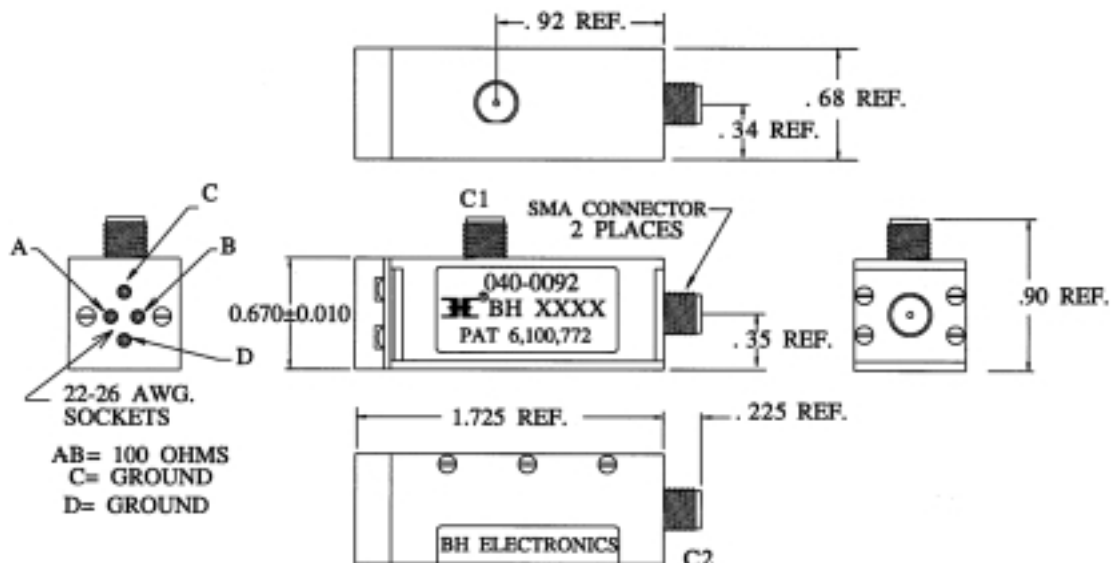
- 12 dB Min. – 1 MHz to 15 MHz
- 20 dB Min. – 15 MHz to 550 MHz
- 17.5 dB Min. – 550 MHz to 650 MHz

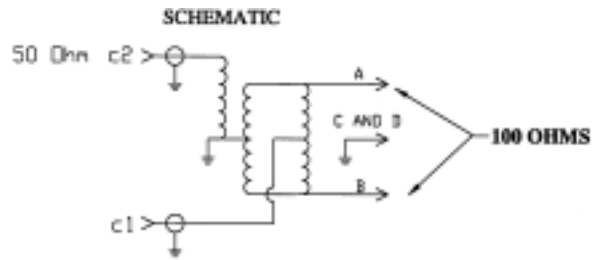
RETURN LOSS (common mode:)

- 15 dB Min. – 1 MHz to 15 MHz
- 20 dB Min. – 15 MHz to 400 MHz
- 15 dB Min. -- 400 MHz to 650 MHz

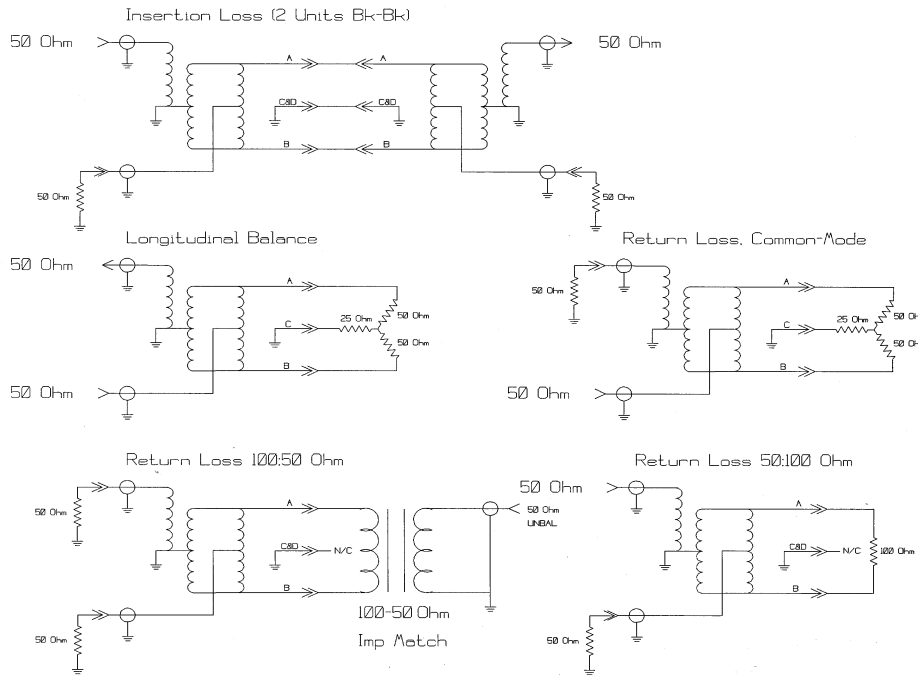
LONGITUDINAL BALANCE:

- 60 dB Min. – 15 MHz to 350 MHz
- 50 dB Min. – 350 MHz to 650 MHz





040-0092 Test Configurations



Application note: The choice of termination resistors is critical to assure maximum performance from this balun. We suggest each user construct terminations by using precision SMT 0.1% (or better) resistors. These resistors should be mounted on a small PC board that is constructed with oversized copper pads which can be trimmed to "tune" the termination at the higher frequencies. It is recommended that the terminations be tuned such that a 1% tolerance is held in the high frequencies (300-650MHz). It should also be noted that when building a "Y" termination, the impedances from each balanced pin to ground should also be within 1% of one another for maximum balance performance.