

Keysight Calibration Kit Definitions > 8510 3.5 mm B.3

3.5 mm B.3 Calibration Kit

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Standard Definitions

| Std. No. | Standard Type | C0/L0 Term Z | C1/L1 | C2/L2 | C3/L3 | Load Type | Offset Delay | Offset Z0 | Offset Loss | Min Freq (GHz) | Max Freq (GHz) | Medium | Standard Label |
|----------|---------------|--------------|------------|----------|----------|-----------|--------------|-----------|-------------|----------------|----------------|--------|----------------|
| #1 | Short | 2.0765 | -108.53999 | 2.1705 | -0.01 | Fixed | 31.78499 | 50 | 2.36 | 0 | 999 | Coax | SHORT |
| #2 | Open | 49.43328 | -310.13104 | 23.16819 | -0.15966 | Fixed | 29.243 | 50 | 2.2 | 0 | 999 | Coax | OPEN |
| #3 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #4 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #5 | Open | 6.9558 | -1.0259 | -0.01435 | 0.0028 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | 3.5/2.92 |
| #6 | Open | 5.9588 | -11.195 | 0.5076 | -0.00243 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | 3.5/SMA |
| #7 | Open | 13.4203 | -1.9452 | 0.5459 | 0.01594 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | 2.92/SMA |
| #8 | Open | 8.9843 | -13.9923 | 0.3242 | -0.00112 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | 2.4/1.85 |
| #9 | Load | | | | | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | BROADBAND |
| #10 | Load | | | | | Sliding | 0 | 50 | 0 | 2.999 | 999 | Coax | SLIDING |
| #11 | Thru | | | | | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | THRU |
| #12 | Load | | | | | Fixed | 0 | 50 | 0 | 0 | 3.001 | Coax | LOWBAND |
| #13 | Thru | | | | | Fixed | 94.74999 | 50 | 2.51 | 0 | 999 | Coax | ADAPTER |
| #14 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | undefined |
| #15 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | undefined |
| #16 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #17 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #18 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #19 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #20 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |
| #21 | Short | 0 | 0 | 0 | 0 | Fixed | 0 | 50 | 0 | 0 | 999 | Coax | |

Class Assignments

| | A | B | C | D | E | F | G | Standard Class Label |
|----------------------|----|----|----|---|---|---|---|----------------------|
| S11A | 2 | | | | | | | OPEN |
| S11B | 1 | | | | | | | SHORT |
| S11C | 9 | 10 | 12 | | | | | LOADS |
| S22A | 2 | | | | | | | OPEN |
| S22B | 1 | | | | | | | SHORT |
| S22C | 9 | 10 | 12 | | | | | LOADS |
| Forward Transmission | 11 | | | | | | | THRU |
| Reverse Transmission | 11 | | | | | | | THRU |
| Forward Match | 11 | | | | | | | THRU |
| Reverse Match | 11 | | | | | | | THRU |
| Forward Isolation | 9 | | | | | | | ISOL'N STD |
| Reverse Isolation | 9 | | | | | | | ISOL'N STD |
| Frequency Response | 1 | 2 | 11 | | | | | RESPONSE |
| TRL Thru or Line | 14 | | | | | | | undefined |
| TRL Reflect | 1 | | | | | | | undefined |
| TRL Line or Match | 15 | | | | | | | undefined |
| Adapter | 13 | 5 | 6 | 7 | 8 | | | ADAPTER |

VNA = Agilent 8510C

SYSTEM Z0 = 50 ohm

TRL Set Ref = Thru

TRL Cal Z0 = Line Z0

TRL Lowband Frequency = 2 GHz

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