

Calibration

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MCX and MMCX test kits

Cost effective solution for measurement of MCX or MMCX device under Test without using adaptor and without an expensive open, short, load calibration kit. The method is especially suitable for snap on interfaces. SSL calibration method allows same measurement feature as the OSLT but narrow banded (full 2 ports, 12 terms).

Features

- One test kit contents:
- 2 short (male, female)
- 2 Offset-short (male, female)
- 2 High end terminations, 3.5 GHz (male, female)

Benefits

- Cost effective solution

MCX and MMCX test kits

Interface	Frequency (GHz)	H+S type	Item no.
MCX 50 Ω	3.5	73_Z-0-0-500	22651015
MCX 75 Ω	3.5	73_Z-0-0-750	23010279
MMCX 50 Ω	3.5	73_Z-0-0-355	22658212



QMA and QN adaptors

Adaptors to measure applications with QMA or QN interfaces. These adaptors support the calibration with open standard interfaces. Thanks to the same electrical length and the same return loss behaviour of all these adaptors, the swapping method can be used.

Features

- Identical electrical length

Benefits

- Fast measurement set-up change: e.g. male to female
- Measure devices with QN, QMA interfaces
- Precise calibration for phase critical measurements

50 Ω adaptors for QMA calibration

Interface 1	Interface 2	Freq. (GHz)	Electrical length at 1 GHz	H+Stype	Item no.
PC3.5 male	PC3.5 female	18	25.40 ± 0.1 mm 30.5° ± 0.12°	33_PC35-50-0-2/199_NE	23020453
PC3.5 female	PC3.5 female	18	25.40 ± 0.1 mm 30.5° ± 0.12°	31_PC35-50-0-2/199_NE	23020456
PC3.5 male	PC3.5 male	18	25.40 ± 0.1 mm 30.5° ± 0.12°	32_PC35-50-0-2/199_NE	23020457
PC3.5 female	QMA female	18	25.40 ± 0.1 mm 30.5° ± 0.12°	31_PC35-QMA-50-1/199_NE	23017468
PC3.5 male	QMA male	18	25.40 ± 0.1 mm 30.5° ± 0.12°	32_PC35-QMA-50-1/1-_NE	23017489
PC3.5 male	QMA female	18	25.40 ± 0.1 mm 30.5° ± 0.12°	33_PC35-QMA-50-1/199_NE	23017467
QMA male	PC3.5 female	18	25.40 ± 0.1 mm 30.5° ± 0.12°	33_QMA-PC35-50-1/1-_NE	23017488



QMA calibration with adaptor swapping method

For return loss/VSWR measurement of QMA connectors, HUBER+SUHNER recommends the following calibration method:

1.) Calibration with PC3.5 to PC3.5 calibration adaptors (SMA calibration)

- 31_PC35-50-0-2/199_NE (Item no. 23020456) or
- 32_PC35-50-0-2/199_NE (Item no. 23020457) or
- 33_PC35-50-0-2/199_NE (Item no. 23020453)

2.) Exchanging of the calibration adaptors with the required QMA adaptors

- 31_PC35-QMA-50-1/199_NE (Item no. 23017468) or
- 32_PC35-QMA-50-1/1-_NE (Item no. 23017489) or
- 33_PC35-QMA-50-1/199_NE (Item no. 23017467) or
- 33_QMA-PC35-50-1/1-_NE (Item no. 23017488)