



# Bi-Directional Couplers

**50 & 75 Ω**



Designed for use with the SLM3505 Selective level meter to provide directly measured values of forward and reflected power

## DESCRIPTION

For use with the SLM3505 to provide an alternative method of measuring the VSWR to the impedance measurement method.

This method uses a separate piece of equipment a “Directional Coupler”, plugged into the balanced inputs. The coupler is connected between the transmitter and its load and provides directly measured values of forward and reflected power from which the VSWR is calculated and displayed on the SLM3505 screen.

50 Ohms Directional Coupler

Max Voltage: +/10V Peak

Specification @ 50KHz

Termination	VSWR	Return Loss (dB)	Reflection (%)
None	Hundreds	n/a	95 - 100
50 Ω	1.000 ± 0.08	< -40	0 ± 0.05
100 Ω	2.000 ± 0.08	-9.542 ± 0.35	11.11 ± 0.1

75 Ohms Directional Coupler

Max Voltage: +/10V Peak

Specification @ 50KHz

Termination	VSWR	Return Loss (dB)	Reflection (%)
None	Hundreds	n/a	97 - 100
75 Ω	1.000 ± 0.08	< -40	0 ± 0.05
100 Ω	1.333 ± 0.08	-16.902 ± 0.7	2.037 ± 0.8

Dimensions (mm)

: 94 x 58 x 35 mm

Weight

: 450 g

Designed in accordance with IEC 61010

SAFETY WARNING: This note must be read in full. Any operations on live conductors can be dangerous. The operator is expected to be fully aware of all necessary electrical safety regulations and procedures, taking responsibility for safe operation. Users must ensure that the equipment is at all times in its original safe conditions.

