OMT / Depolarizer

SMW SWEDISH MICROWAVE AB

Ku-Band OMT (Ortho Mode Transducer)

Shown with 90° bend fitted

Swedish Microwave's OMT is used to separate two orthogonal linearly polarized signals simultaneously.

The OMT can also support circular polarizations with a depolarizer.

Greater than 31.5 dB isolation between the two linear polarizations is achieved.

Accessories:
Bend for the vertical polarization.
Waveguide cover for unused port.
Depolarizer for circular polarizations.

TECHNICAL SPECIFICATIONS

MODEL:	OMT Ku-Band
Frequency Range Vertical	10.70 - 14.50 GHz
Frequency Range Horizontal	10.70 - 12.75 GHz
Input Waveguide	C120 (circular 18 mm)
Output Waveguides	WR75
Input VSWR	1.5:1 max
Cross Polarization (isolation)	31.5 dB min.
Transmission Loss	0.1 dB
Weight	200 g
Material	Zinc
Dimensions	125 x 48 x 46 mm (73 x 48 x 45 mm w/o bend) (for drawing, see www.smw.se)

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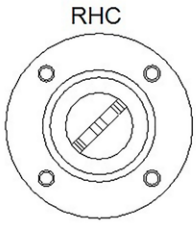
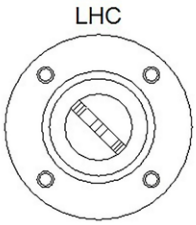
Depolarizer (Circular to linear polarization)



RHC @ Vertical output
LHC @ Horizontal output



LHC @ Vertical output
RHC @ Horizontal output

TECHNICAL SPECIFICATIONS

MODEL:	Depolarizer LHC & RHC Ku-Band
Polarization	Circular LHC & RHC together with SMW Twin/OMT
Frequency Range	10.70 - 12.75 GHz
VSWR	1.25:1 typ.
Transmission Loss	0.1 dB typ.
Cross Polarization Rejection	20 dB typ.
Waveguide	C120 (circular waveguide 18 mm)
Material	Aluminium (black anodized)
Weight	90 g
Dimensions	L = 47 mm, Ø 50 mm (for drawing, see www.smw.se)

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