

OMT, Feedhorns, Quarterwave transformer



Good matching and low losses allow the LNB or OMT to work under optimal conditions for best possible performance. Following standard models are available:

- Offset feedhorn XM-601 (C120) / XM-611 (WR75)

23 mm (40 mm with Adapter 23/40) standard offset feedhorn.

- Prime focus feedhorn XM-140

A Prime focus feedhorn with a diameter of 58 mm and circular output.

- Quarterwave transformer

To adapt from circular (output) waveguide C120 to rectangular (input) WR75.

- Adapter C120/C120

On the market there are many different hole patterns for C120. This adapter is the solution if you don't have the right screw holes matching.

- Adapter WC75 Prodelin

To match Prodelin 2.4 & 3.7 m feedhorn with SMW Quattro/OMT and SMW LNBs (+ Quarterwave transformer).

- OMT 30 & Bend V

OMT 30 receives two polarizations simultaneously with high cross polarization (isolation) and minimal transmission loss.

Swedish Microwave (SMW) was founded 1986 and is today a leading manufacturer of professional LNBs (Low Noise Blockdownconverters). The company is located in Motala Sweden, and to date the products are installed in more than 80 countries.

All work is in-house allowing custom-design products, short delivery times, high flexibility, quick service and support.

Specification Feedhorns, Depolarizers, Quarterwave transformer, Waveguide & Adapter C120/C120

Feedhorn	XM-601 / XM-611 Offset	XM-140 Prime focus	Quarterwave transformer
Frequency range	10.7 - 12.75 GHz	10.7 - 12.75 GHz	10.7 - 12.75 GHz
VSWR	1.25:1 max	1.25:1 max	1.2:1 max
f/D	0.45 - 0.65	0.3 - 0.45	-
Waveguide	C120 Circular 18 mm (XM-601)/ WR75 Rectangular (XM-611)	C120 Circular 20 mm Rectangular WR75*	Circular 18 mm/Rectangular WR75
Mounting (neck)	23 mm	58 mm (neck 23 mm, 18 mm width)	-
Material	Diecast aluminium	Aluminium	Aluminium
Finish	Cromated + powder coat	Black anodized	Natural anodized
Weight	85 g	140 g	45 g
Option	Integrated depolarizer LHC or RHC	Integrated depolarizer LHC or RHC	-
Accessories	23/ 40 mm adapter		

* Together with a Quarterwave transformer

SMW	Adapter C120/120	Adapter Prodelin Feed
Frequency range	10.7 - 12.75 GHz	10.7 - 12.75 GHz
Waveguide	Circular 18 mm	Circular 18 mm
Material	Aluminium	Aluminium
Finish	Natural anodized	Natural anodized
Weight	45 g	45 g

SMW	OMT 30
Frequency range	10.7 - 14.5 GHz Vertical & 10.7 - 12.75 GHz Horizontal
SWR	1.5:1max
Transmission loss	0.1 dB
Cross polarization	31.5 dB min
Input	Circular waveguide 18 mm
Output	WR75 waveguides
Material	Zinc
Weight	200 g
Accessories	Bend for the vertical polarization (both LNBs point straight down)

Drawings available at www.smw.se



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2009-10-23