



Features

- Full waveguide band
- Models from 33 to 220 GHz
- High polarisation purity
- High isolation
- Circular common port
(Square port options are available)



29785 Full-band OMT using
FSM-45 flange interfaces

Applications

- For use with dual-polarised antennas
- For polarisation duplexing
- CATR- Compact Antenna Test Range
- 5G and 6G Test Systems

Flann full-band OMTs offer the high performance demanded by today's communication systems, in which good polarisation purity and isolation are paramount. These instruments have two rectangular ports on adjacent faces, and a common circular port.

The OMT is a bi-directional device which allows signals to be sent from, or received at, the rectangular ports via an antenna supporting dual polarisation (at the common port). It can also be used to separate the vertical and horizontal components of a circularly polarised or elliptically-polarised wave, or to combine two signals to transmit a circularly or elliptically-polarised wave from a suitable horn antenna.

The models currently available are detailed in the table below. Designs can be adapted to custom output diameters.

Model	Waveguide Size		Frequency Range (GHz)	Port Isolation (dB)	Cross-Polarisation (dB)	Return Loss (dB)	Insertion Loss (dB)
	WG	WR					
23785	23	22	33.0 – 50.1	40	35	15	1.0
24785	24	19	39.3 – 60.0	40	35	15	1.1
25785	25	15	49.9 – 75.8	40	35	15	1.2
26785	26	12	60.0 – 92.0	40	30	15	1.4
27785	27	10	73.8 – 112.0	40	30	15	1.6
28785	28	08	90 – 140	35	25	15	2.0
29785	29	06	110 – 173	35	25	15	2.4
30785	30	05	140 – 220	35	25	15	3.0

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FLANN MICROWAVE

Full-Band Orthomode Transducer
Series 785

Complimentary Components are available to complete your system:

- Corrugated Horn Antennas- Series 242
- Conical Horn Antennas- Series 243
- Lens Horn Antennas- Series 8**
- Diplexers- Series 286
- Filters- Series 28*
- Polarisers- Series 648/782/652
- Polarisation Analysers
- Septum Polarisers - Series 782
- Waveguide to Coaxial Adaptors (up to 145 GHz)



Series 242

Custom Design

Customisable circular ports or square ports available, contact sales for further information.

sales@flann.com

Ordering

Model	Series	-	Flange
WG23 – WG30	785		See flann.com

Environmental Specifications

Optimum operating temperature:

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