RF Links Product Ordering Guide

1246316-A04

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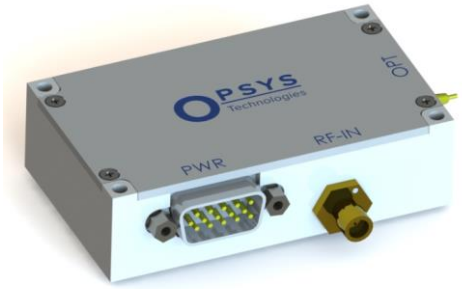
OPSYS MTX Ordering Information



MTX-XX-Y-Z-CC-CUST

MTX Model:
2 – up to 2GHz
3 – up to 3GHz
6 – up to 6GHz
18 – up to 18GHz

1 – LC/APC
2 – FC/APC
3 – SC/APC
X – Other

1 – 1550nm
2 – 1310nm*
3 – CWDM*
4 – DWDM

Optical Channel:
See ITU-Ch below Tables
*Blank – if Z=1 & 2

Custom Option:
Blank – Standard
x – Custom
F – Formed(CAR)

1113600-A04_Ops
h_MTX2_MTX3_Pr

1113597-A02_Ops
ch_MTX6_Product

1278123-A00_Ops
ch_MTX18_Produc

OPSYS MTX & WTX Ordering Information

DWDM/CWDM ITU Channels

DWDM ITU Grid Channels (100 GHz Spacing)					
Channel	ITU Frequency [GHZ]	Center Wavelength [nm]	Channel	ITU Frequency [GHZ]	Center Wavelength [nm]
15	191.5	1565.5	40	194	1545.32
16	191.6	1564.68	41	194.1	1544.53
17	191.7	1563.86	42	194.2	1543.73
18	191.8	1563.05	43	194.3	1542.94
19	191.9	1562.23	44	194.4	1542.14
20	192	1561.42	45	194.5	1541.35
21	192.1	1560.61	46	194.6	1540.56
22	192.2	1559.79	47	194.7	1539.77
23	192.3	1558.98	48	194.8	1538.98
24	192.4	1558.17	49	194.9	1538.19
25	192.5	1557.36	50	195	1537.4
26	192.6	1556.56	51	195.1	1536.61
27	192.7	1555.75	52	195.2	1535.82
28	192.8	1554.94	53	195.3	1535.04
29	192.9	1554.13	54	195.4	1534.25
30	193	1553.33	55	195.5	1533.47
31	193.1	1552.52	56	195.6	1532.68
32	193.2	1551.72	57	195.7	1531.9
33	193.3	1550.92	58	195.8	1531.12
34	193.4	1550.12	59	195.9	1530.33
35	193.5	1549.32	60	196	1529.55
36	193.6	1548.51	61	196.1	1528.77
37	193.7	1547.72	62	196.2	1527.99
38	193.8	1546.92	63	196.3	1527.22
39	193.9	1546.12			

CWDM	
Channel	Center Wavelength [nm]
43	1430
45	1450
47	1470
49	1490
51	1510
53	1530
50	1550
57	1570
59	1590
61	1610

OPSYS MRX Ordering Information

MRX#-1550-000-FC/APC-CUST

MRX Model:
2 – up to 2GHz *
4 – up to 4GHz
8 – up to 8GHz
M – Monitor

000 – w/o AMP
AMP – w/ AMP

FC/APC
LC/APC
SC/APC
LC/UPC
X – Other

Custom Option:
Blank – Standard
x – Custom

** - NPI*

1113599-A04_Ops
ch MRX4_Product

1234447-A01_Ops
ch MRX8_Product

OPSYS RTO Ordering Information

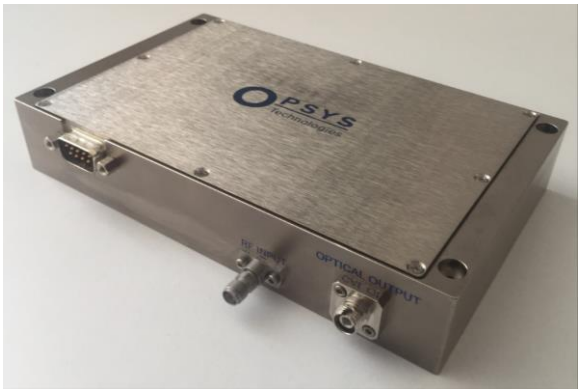
RTO-XY

RTO Model:	
2* – up to 2GHz	1 – 1-CH
4* – up to 4GHz	2 – 2-CH

** - NPI*

1133428-A02_OpS RTO-XX_Product B

OPSYS WTX Ordering Information



WTX - X – Z - CC - D - M

WTX Model:
2 – up to 20GHz
3* – up to 30GHz
4* – up to 40GHz

1 – 1550nm
2 – DWDM

Optical Channel
See ITU-Ch above
Table for DWDM
*Blank – if Z=1

D - w/ Integrated DC Block
Blank - w/o DC Block

Custom Option:
Blank - Commercial
C - Custom

** - NPI*

1279040-A01_Ops ch_WTX20_Produc

OPSYS WRX Ordering Information

WRX-X-0-Y

WRX Model:
2 – up to 20GHz
3 * – up to 30GHz
4 * – up to 40GHz

0 – w/o APM
A - Amplified

Custom Option:
Blank – Commercial range
C – Custom

* - *NPI*

1279038-A00_Opsch_WRX-20_Produ

OPSYS WRX Ordering Information (RF Conn Mates)

View All Topics

What Mates With What

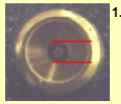
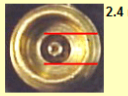
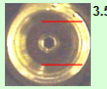
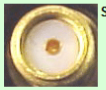
The outer conductor size of these connectors prevents the mating of incompatible connectors. Connectors in each of the shaded areas below have the same size outer conductor and therefore can safely be mated together.

However, damage to connectors occurs from wear, lack of cleaning, improper connection techniques, and poor handling techniques. When mated, a damaged connector can cause another connector to also become damaged. Therefore, clean and inspect all connectors before mating.

In addition, up to three different grades in each connector type are usually available. Production grade connectors can damage metrology grade connectors when mated. Learn more about connector grades.

The first five connector types in the table below use an air dielectric. The name of a connector (ex: 1.85) is determined by the diameter of the air dielectric. This, along with the notes in the following table, is the easiest way to identify these connector types.

NMD style connectors are precision and also rugged. The NMD connector uses a larger outer mechanical interface to provide a stable connection at the front panel. They are typically used to connect with the VNA test port connectors as connector savers. NMD connectors mate exactly like their non-NMD equivalents.

Connector Type	Frequency Range	Mates with...	Notes
 **1.0 mm**	To 110 GHz	1.0 mm	Much smaller connector than any of those below.
 **1.85 mm**	To 70 GHz	2.4 mm	The outer thread size of the 1.85 and 2.4 connectors is bigger than SMA, 3.5, and 2.92. This makes the area of the outer conductor mating surface look very large compared to the relatively small air dielectric.
 **2.4 mm**	To 50 GHz	1.85 mm	The 1.85 mm connector that is manufactured at Keysight has a **groove** in the male nut and female shoulder to distinguish these two connector types.
 **2.92 mm**	To 40 GHz	3.5mm and SMA	These two connectors use the same center pin.
 **3.5 mm**	To 34 GHz	2.92 mm and SMA	
 **SMA**	To 24 GHz	2.92 mm and 3.5 mm	Uses a PTFE dielectric.

Note: SMA connectors are a common and inexpensive type, but their lack of precision affects their durability and performance, and can cause increased wear when mated with other (precision) connectors. SMA connectors are only rated for a very limited number of connection cycles and should be examined before each use.