



**Operating Wavelength Range:**  
1520 to 1570nm

**Temp Range:** Operational: -5 to 70°C  
Storage: -40 to 85°C

**Labeling:** All muxes are labeled  
**C#:** Channels  
**Tx/Rx:** Test Ports  
**COM:** Common  
**UPG:** Upgrade (Daisy Chain)  
**EXP:** Express (CWDM Passthru)



**Optical Specifications**

Parameters	Unit	Specification
Operating Wavelength	nm	1260~1635
Channel Spacing	GHz	100
Bandwidth @ 05db	nm	ITU+/- 0.125
UPG Channel	nm	1520~1570 except DWDM Channel
Express Port Wavelength	nm	1260~1520 & 1570~1635
Test Port Tx	dB	-20 ± 1
Test Port Rx	dB	-20 ± 1
Ripple	dB	≤ 0.50
Adjacent Channel Isolation	dB	≥ 30
Non-adjacent Channel Isolation	dB	≥ 45
Express Channel Isolation	dB	≥ 12
UPG Channel Isolation	dB	≥ 12
PDL	dB	≤ 0.25
PMD	ps	≤ 0.15
Directivity for DWDM Channel	dB	≥ 55
Directivity for UPG	dB	≥ 45
Return Loss	dB	≥ 45

**Environmental Specifications**

Operation Temperature Range	°C	-5~70
Storage Temperature Range	°C	-40~85
Operation humidity	%	10-90
Power Handling	mW	300

4 Channel Digital Ethernet / Enterprise

ITU Channel Plan	MFG item#
CH: 20-23	5-0001-07347-161
CH: 24-27	5-0001-07347-162
CH: 28-31	5-0001-07347-163
CH: 32-35	5-0001-07347-164
CH: 36-39	5-0001-07347-165
CH: 40-43	5-0001-07347-166
CH: 44-47	5-0001-07347-167
CH: 48-51	5-0001-07347-168
CH: 52-55	5-0001-07347-169
CH: 56-59	5-0001-07347-160

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 14.5
CH Insertion Loss	dB	≤ 2.7
UPG Port Insertion Loss	dB	≤ 2.3
EXP Port Insertion Loss	dB	≤ 2.3



8 Channel Digital Ethernet / Enterprise

ITU Channel Plan	MFG item#
CH: 20-27	5-0001-07348-161
CH: 28-35	5-0001-07348-162
CH: 36-43	5-0001-07348-163
CH: 44-51	5-0001-07348-164
CH: 52-59	5-0001-07348-165

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 29
CH Insertion Loss	dB	≤ 3.4
UPG Port Insertion Loss	dB	≤ 2.3
EXP Port Insertion Loss	dB	≤ 3.1



10 Channel Digital Ethernet / Enterprise

ITU Channel Plan	MFG item#
CH: 20-29	5-0001-07369-110
CH: 30-39	5-0001-07369-111
CH: 40-49	5-0001-07369-112
CH: 50-59	5-0001-07369-113

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 29
CH Insertion Loss	dB	≤ 3.4
UPG Port Insertion Loss	dB	≤ 2.3
EXP Port Insertion Loss	dB	≤ 3.2



20 Channel Digital Ethernet / Enterprise

ITU Channel Plan	MFG item#
CH: 20-39	5-0001-07350-161
CH: 40-59	5-0001-07350-162

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 58
CH Insertion Loss	dB	≤ 4.2
UPG Port Insertion Loss	dB	≤ 2.3
EXP Port Insertion Loss	dB	≤ 3.6



40 Channel Digital Ethernet / Enterprise

ITU Channel Plan	MFG item#
CH: 20-59	5-0001-07375-101

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 58
CH insertion loss	dB	≤ 4.8
UPG Port Insertion Loss	dB	≤ 3.0
EXP Port Insertion Loss	dB	≤ 4.0



4 Channel Analog HFC / Residential

ITU Channel Plan	MFG item#
CH: 21, 33, 44, 57	5-0001-07351-166
CH: 21, 22, 24, 26	5-0001-07351-167
CH: 28, 33, 36, 39	5-0001-07351-168
CH: 44, 48, 52, 54	5-0001-07351-169
CH: 57, 60, 61, 62	5-0001-07351-170

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 14.5
CH Insertion Loss	dB	≤ 2.0
UPG Port Insertion Loss	dB	≤ 1.7



8 Channel Analog HFC / Residential

ITU Channel Plan	MFG item#
CH: 21, 22, 24, 26, 28, 33, 36, 39	5-0001-07352-167
CH: 44, 48, 52, 54, 57, 60, 61, 62	5-0001-07352-168
CH: 43, 46, 50, 51, 55, 56, 58, 59	5-0001-07352-160
CH: 20, 23, 25, 27, 29, 32, 34, 37	5-0001-07352-169
CH: 21, 28, 33, 39, 44, 52, 57, 62	5-0001-07352-166

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 14.5
CH Insertion Loss	dB	≤ 2.8
UPG Port Insertion Loss	dB	≤ 2.6



16 Channel Analog HFC / Residential

ITU Channel Plan	MFG item#
CH: 21, 22, 24, 26, 28, 33, 36, 39, 44, 48, 52, 54, 57, 60, 61, 62	5-0001-07353-164
CH: 20, 23, 25, 27, 29, 32, 34, 37, 43, 46, 50, 51, 55, 56, 58, 59	5-0001-07353-165
CH: 20, 21, 23, 24, 29, 33, 35, 42, 44, 47, 51, 52, 54, 57, 58, 59	5-0001-07353-166
CH: 20, 23, 25, 27, 29, 31, 34, 38, 43, 45, 47, 49, 51, 53, 56, 59	5-0001-07353-167

Parameter	Unit	Specification
Dimensions	mm	150 x 129 x 29
CH Insertion Loss	dB	≤ 3.9
UPG Port Insertion Loss	dB	≤ 3.4

