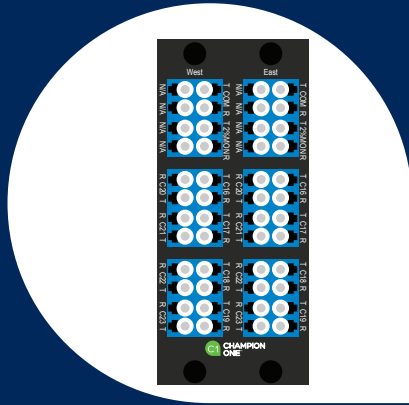


**PASSIVES DATA SHEET**

# 8 Channel Dual Fiber OADM DWDM

## Chs. 16-23, 25-32, 34-41, 43-50, 52-59



Champion ONE's DWDM passive networking products for inside and outside plant applications provide a cost-effective, high-reliability solution to fiber capacity challenges.

## Technical Specifications

**WAVELENGTH INFORMATION**

DWDM channel wavelengths: ITU ch. 16–23, 25–32, 34–41, 43–50, or 52–59; 100GHz spacing  
Passband width: ITU ± 0.11nm

**FORM FACTOR AND CONNECTOR TYPES**

2xLGX cassette  
LC/UPC connectors

**DIMENSIONS (LXWXH)**

Body: 100mm x 100mm x 57mm  
Faceplate: 130mm x 57mm

**TEMPERATURE RANGE**

-40° C to 85° C (operating and storage)

**WARRANTY**

All feature a limited 5-year warranty

**COMPLIANCES**

RoHS compliant  
Telcordia GR-1209, GR-1221

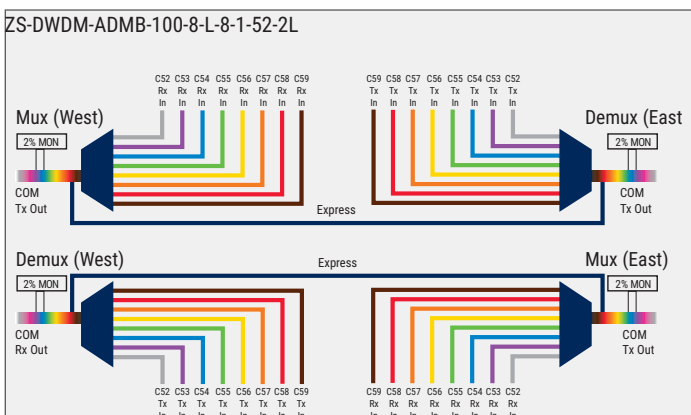
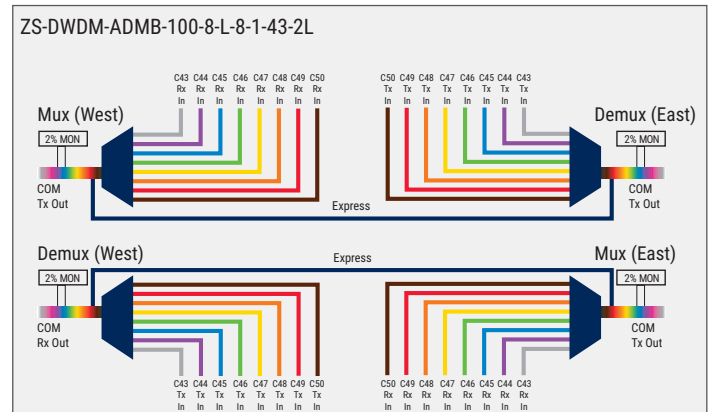
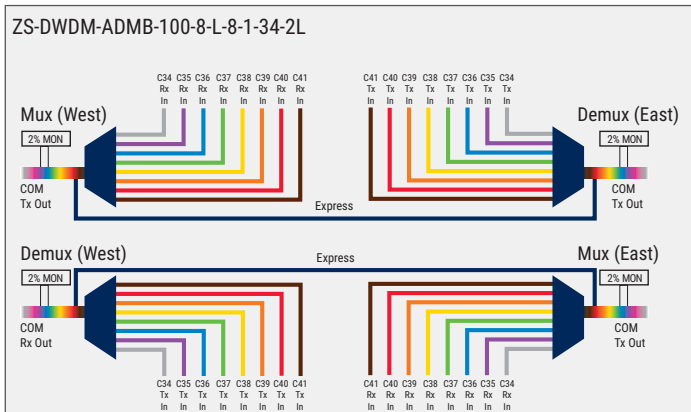
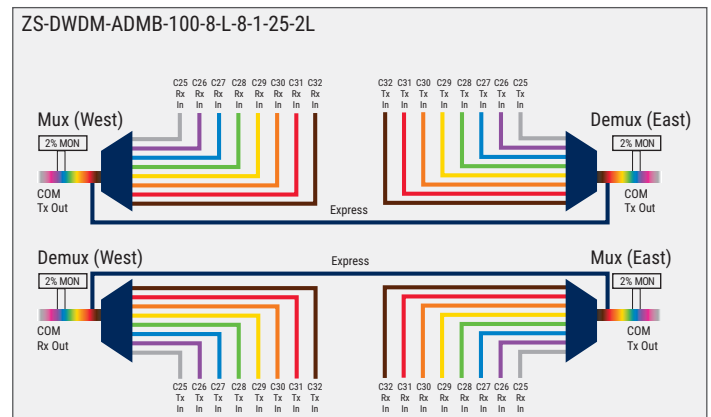
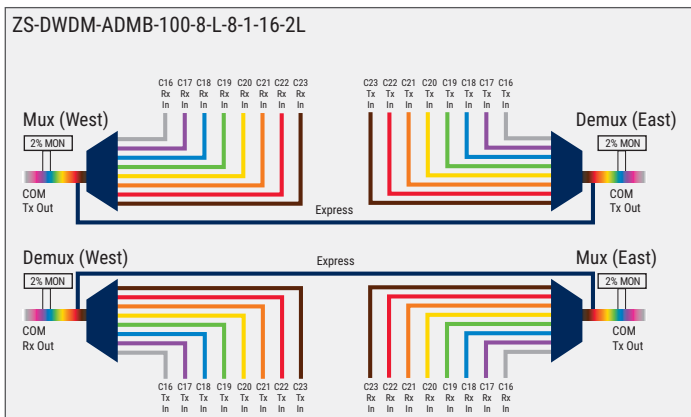
Parameter	Value
COM > Channel Insertion Loss (dB)	≤ 3.6
Channel > COM Insertion Loss (dB)	≤ 3.6
COM > COM Insertion Loss (dB)	≤ 1.5
MON Port Insertion Loss (mux/demux, dB)	≤ 22.6 / 19.0 (East) ≤ 22.6 / 19.0 (West)
Passband Ripple (dB)	≤ 0.5
Adjacent Channel Isolation (dB)	≥ 30
Non-Adjacent Channel Isolation (dB)	≥ 40

Parameter	Value
Polarization Dependent Loss (dB)	≤ 0.2
Directivity (dB)	≥ 50
Return Loss (dB)	≥ 45
Polarization Mode Dispersion (ps)	≤ 0.2
Fiber Type	SMF28 or equivalent
Max Power Handling (mW)	300

## Ordering Information

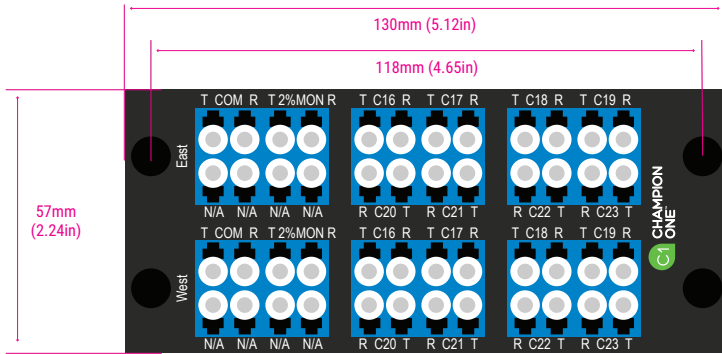
C1 Part Number	Description
ZS-DWDM-ADMB-100-8-L-8-1-16-2L	DWDM 100GHz spacing, Band pass OADM, TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 16 Start, Single module, Dual LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-ADMB-100-8-L-8-1-25-2L	DWDM 100GHz spacing, Band pass OADM, TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 25 Start, Single module, Dual LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-ADMB-100-8-L-8-1-34-2L	DWDM 100GHz spacing, Band pass OADM, TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 34 Start, Single module, Dual LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-ADMB-100-8-L-8-1-43-2L	DWDM 100GHz spacing, Band pass OADM, TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 43 Start, Single module, Dual LGX, Skip 0, Bandpass EXP, MON 2% M/D
ZS-DWDM-ADMB-100-8-L-8-1-52-2L	DWDM 100GHz spacing, Band pass OADM, TFF Thin Film Filter (I-Temp), 8 Channel, L (LC/UPC), Channel 52 Start, Single module, Dual LGX, Skip 0, Bandpass EXP, MON 2% M/D

## Network Diagrams

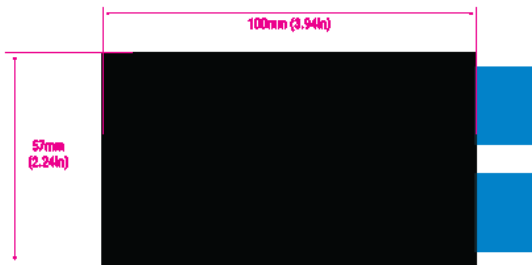


## Physical Diagrams and Extended Loss Specifications

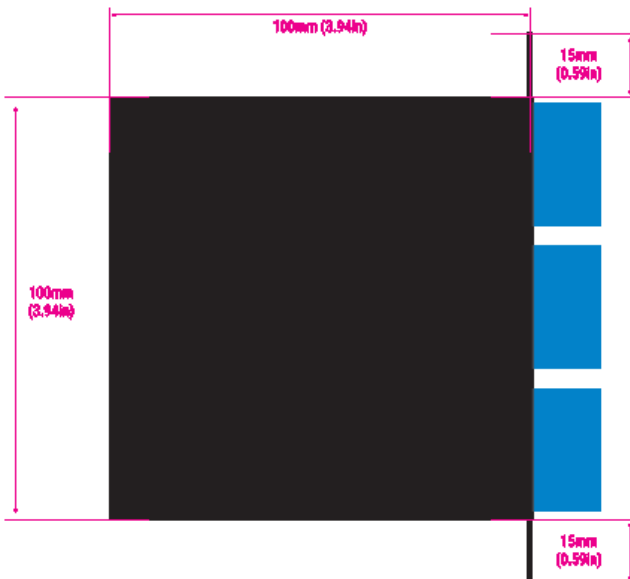
ZS-DWDM-ADMB-100-8-L-8-1-16-2L



Front View



Side View

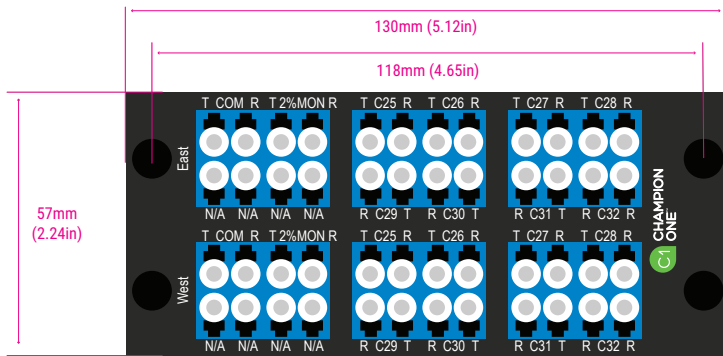


Top View

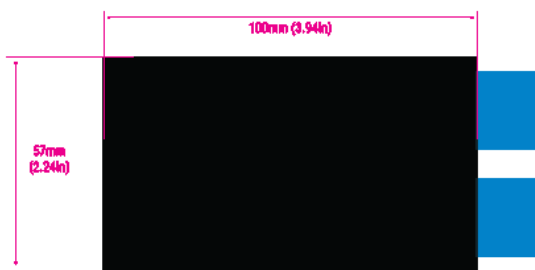
Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 16	1.8	3.4	2.0	3.6
ITU ch. 17	2.1	3.2	2.3	3.4
ITU ch. 18	2.4	3.0	2.6	3.2
ITU ch. 19	2.6	2.8	2.8	3.0

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 20	2.8	2.6	3.0	2.8
ITU ch. 21	3.0	2.4	3.2	2.6
ITU ch. 22	3.2	2.1	3.4	2.3
ITU ch. 23	3.4	1.8	3.6	2.0

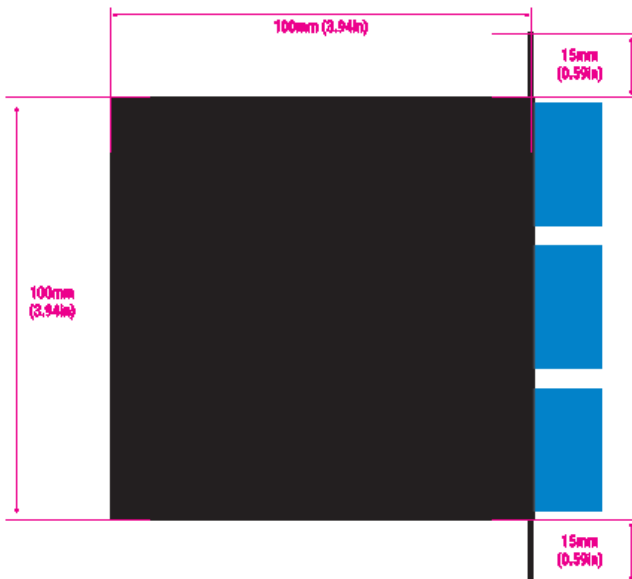
ZS-DWDM-ADMB-100-8-L-8-1-25-2L



Front View



Side View

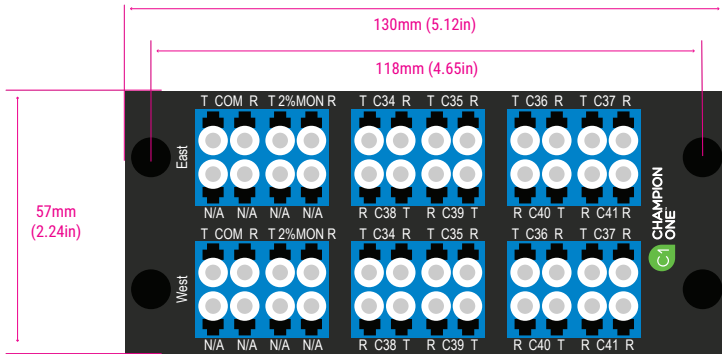


Top View

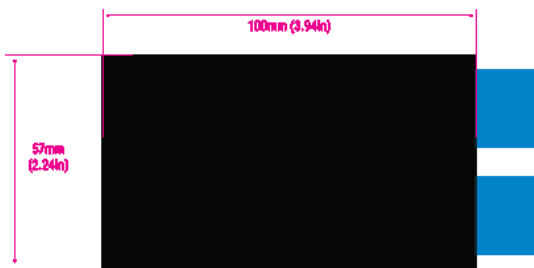
Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 25	1.8	3.4	2.0	3.6
ITU ch. 26	2.1	3.2	2.3	3.4
ITU ch. 27	2.4	3.0	2.6	3.2
ITU ch. 28	2.6	2.8	2.8	3.0

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 29	2.8	2.6	3.0	2.8
ITU ch. 30	3.0	2.4	3.2	2.6
ITU ch. 31	3.2	2.1	3.4	2.3
ITU ch. 32	3.4	1.8	3.6	2.0

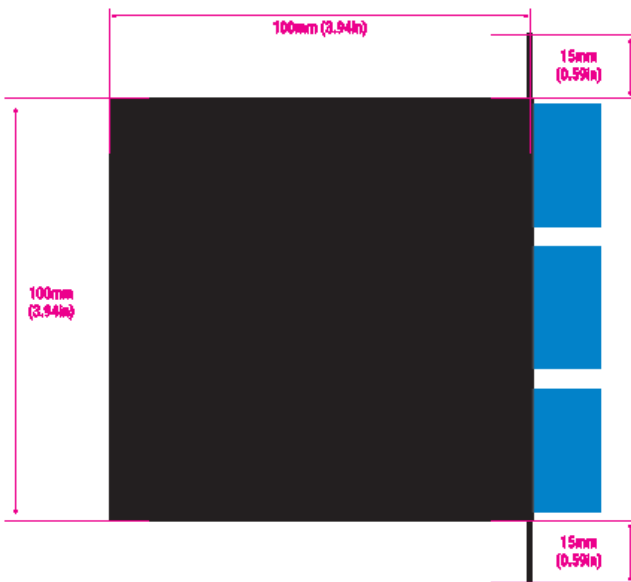
ZS-DWDM-ADMB-100-8-L-8-1-34-2L



Front View



Side View

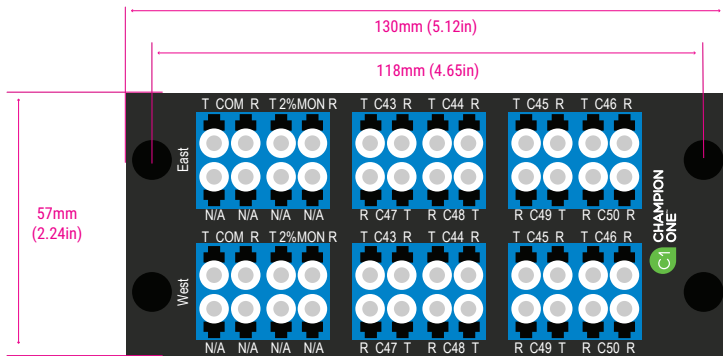


Top View

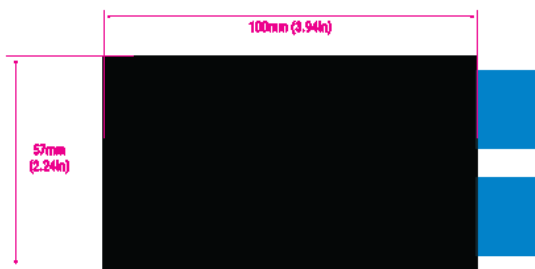
Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 34	1.8	3.4	2.0	3.6
ITU ch. 35	2.1	3.2	2.3	3.4
ITU ch. 36	2.4	3.0	2.6	3.2
ITU ch. 37	2.6	2.8	2.8	3.0

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 38	2.8	2.6	3.0	2.8
ITU ch. 39	3.0	2.4	3.2	2.6
ITU ch. 40	3.2	2.1	3.4	2.3
ITU ch. 41	3.4	1.8	3.6	2.0

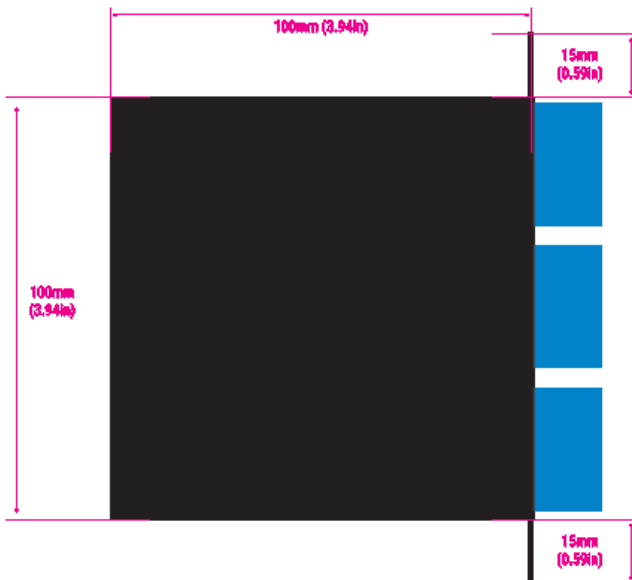
ZS-DWDM-ADMB-100-8-L-8-1-43-2L



Front View



Side View

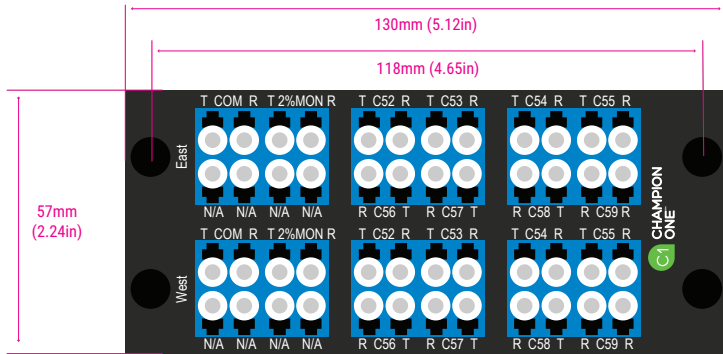


Top View

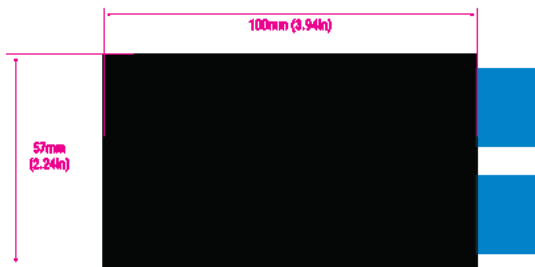
Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 43	1.8	3.4	2.0	3.6
ITU ch. 44	2.1	3.2	2.3	3.4
ITU ch. 45	2.4	3.0	2.6	3.2
ITU ch. 46	2.6	2.8	2.8	3.0

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 47	2.8	2.6	3.0	2.8
ITU ch. 48	3.0	2.4	3.2	2.6
ITU ch. 49	3.2	2.1	3.4	2.3
ITU ch. 50	3.4	1.8	3.6	2.0

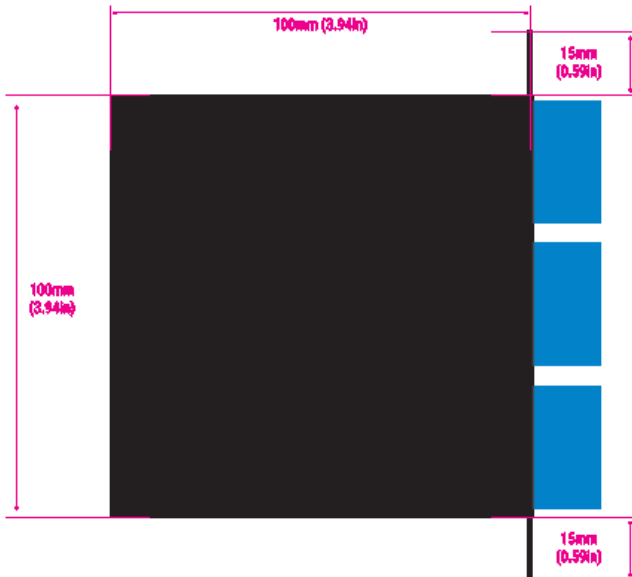
ZS-DWDM-ADMB-100-8-L-8-1-52-2L



Front View



Side View



Top View

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 52	1.8	3.4	2.0	3.6
ITU ch. 53	2.1	3.2	2.3	3.4
ITU ch. 54	2.4	3.0	2.6	3.2
ITU ch. 55	2.6	2.8	2.8	3.0

Channel	Typical		Max	
	West IL (dB)	East IL (dB)	West IL (dB)	East IL (dB)
ITU ch. 56	2.8	2.6	3.0	2.8
ITU ch. 57	3.0	2.4	3.2	2.6
ITU ch. 58	3.2	2.1	3.4	2.3
ITU ch. 59	3.4	1.8	3.6	2.0