



4-Ch (3+Exp) Optical Mux/Dmux

147-40S1-TB Mini-Cassette (and Options)

DESCRIPTION

The 147-40S1-TB Hardened Remote Field Mini-Cassette Passive Optical Multiplexer-Demultiplexer (Mux/Dmux) is designed to operate with the Optical Zonu SFC™ Line of CWDM SFP Transceivers, as well as the 147-4L01-SA 4-Channel LGX Hub/CO Passive Optical Mux/Dmux. The Optical Interface is via five (5) SC/APC terminated (or bare) optical fiber pigtails in a Single Mini-Cassette Format.

ABSOLUTE MAXIMUM RATINGS

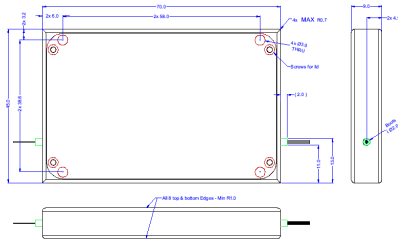
Parameter	Symbol	Min	Max	Units
Storage Temperature (Case)	T _s	-40	+85	°C
Operating Temperature (Case)	T _o	-40	+85	°C
Optical Fiber Pigtail Length		1900	2100	mm
Optical Fiber Type		SMF 28e 900 μ Tight Buffer		
Optical Connectors		SC/APC Standard (Options Available)		
Package Configuration		Single Mini-Cassette (70 x 45 x 9 mm)		

CHARACTERISTICS OF 147-40S1-TB

Parameter	Symbol	Min	Typical	Max	Units	Notes
Operating Wavelength Range	λ	1260		1620	nm	
Pass Bandwidth		λ _c -6.5	λ _c	λ _c +6.5	nm	
Express Channel Wavelength	λ _e	1260	1491	1497.5	nm	
Wavelength Ripple (over Pass Bandwidth)				0.5	dB	
Express Channel Ripple (at λ _e)				0.5	dB	
Insertion Loss @ ITU Channel (λ _c):	IL					1
Express Ch 12 (1491 nm)				1.8	dB	
Ch 13 (1511 nm)				2.6	dB	
Ch 14 (1531 nm)				3.3	dB	
Ch 15 (1551 nm)				3.4	dB	
CWDM Adjacent Channel Isolation		30			dB	
CWDM None-Adjacent Channel Isolation		45			dB	
Express Channel Isolation		15			dB	
Return Loss		45			dB	2
Directivity		50			dB	
Polarization Dependent Loss				0.2	dB	
Polarization Mode Dispersion				0.1	ps	
Optical Power Handling				300	mW	
Optical Connector Loss				0.2	dB	

Notes:

- 1 Insertion Loss includes TD, PDL and WDL (excluding connector loss).
- 2 Guaranteed by design.



FEATURES

- SFC™ Single Fiber, Full Duplex
- Single Cassette Configuration
- 1% (-20 dBm) Monitor
- Optical Fiber Pigtails
- SC/APC Connectors or Bare Fiber
- -40°C to +85°C T_o
- Sequencing Optimized for Maximum Link Distance
- Input Optical Power Monitoring
- ZonuColor™ Code

BENEFITS

- Half the Optical Fibers
- Half the Passive Elements
- Half the Costs
- Optimized for SFC™ Transceivers
- High Density Mini-Cassette
- SC/APC Connectors
- Modular Approach

OPTIONS

- Terminated or Bare Optical Fiber
- 1310 nm Pass-Through
- Five (5) Channel Variant
- TIA-598-C ZonuColor™ Code
- Custom Terminations
- “Channel-Adder” Available
- Migration Path to 10-Channels

APPLICATIONS

- Single Fiber SFC™ Transceivers
- CWDM (Fiber Recovery)
- Wireless Backhaul
- Direct Gigabit Ethernet Service
- Commercial VLANs
- SONET/SDH Rings

Assembled in the Republic of the Philippines

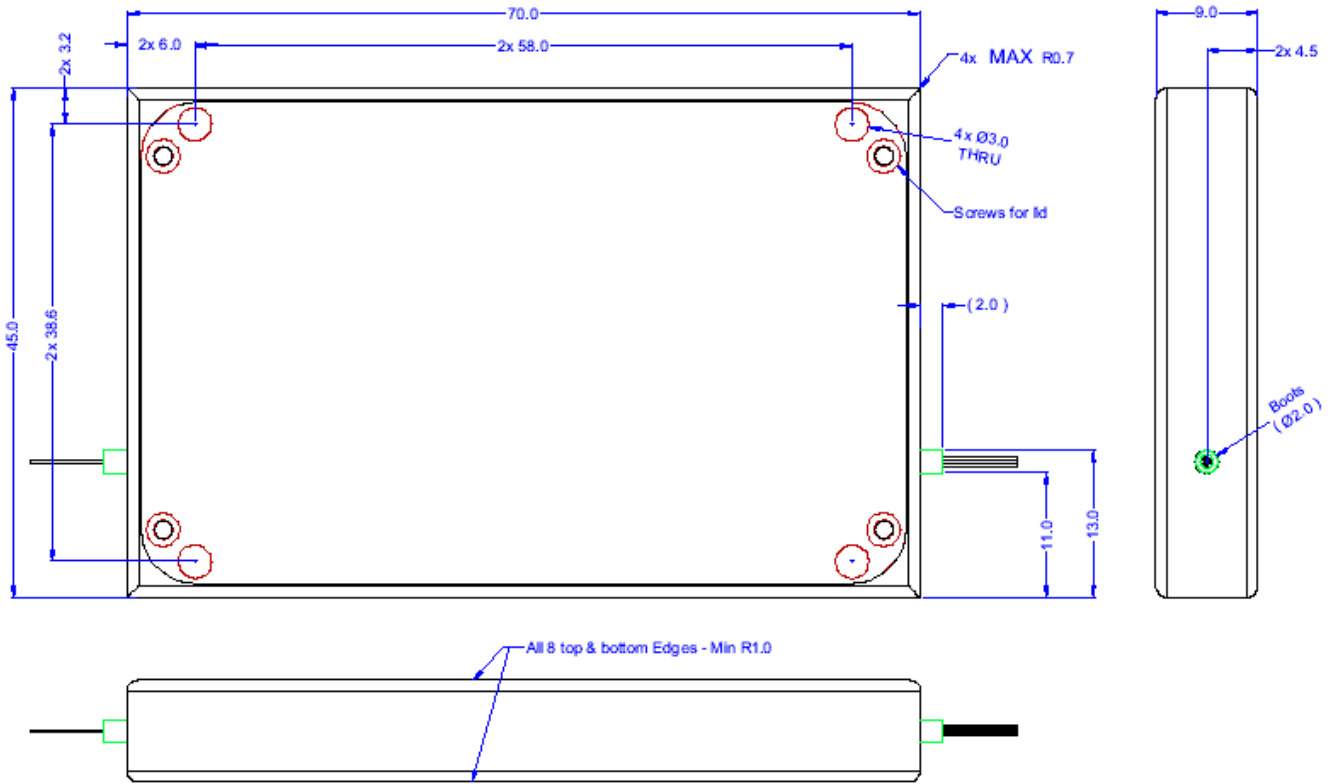


Worldwide Network of Supply and Support

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NOTES: UNLESS OTHERWISE SPECIFIED
 1. Material - Aluminum
 2. Surface - Black Dull finish (Anodizing or comparable)
 3. Final Parts must be RoHS compliant.

UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN MILLIMETERS.
 TOLERANCES ARE:
 X ±.2, Angles ±1°
 0.X ±.1, Material: See notes
 0.XX ±.05, Finish: See notes
 0.00X ±.01, Reference: See notes

TITLE
 70 x 45 x 9mm Box Assembly Dimensions



4-Ch Mini-Cassette in typical Fiber Splice Case with business card shown for size comparison.