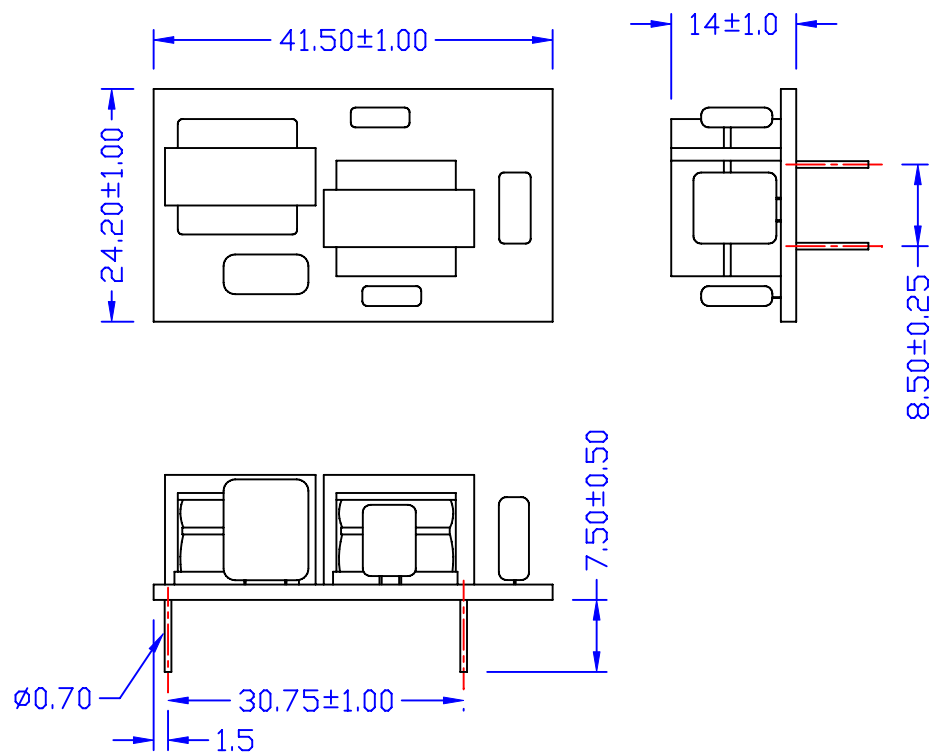




ELECTRICAL CHARACTERISTICS :

ELECTRICAL REQUIREMENT ITU 99X.1 ANNEX E

DC REQUIREMENTS:

1. TIP AND RING TO EARTH(@100VDC) : 20M OHM MIN.
2. TIP TO RING(@100VDC) : 5M OHM MIN.
3. TIP TO RING(@POTS PORT SHORTED) : 25 OHM MAX.

VOICE BAND LOSS REQUIREMENTS:

1. INSERTION LOSS SHORT LOOP(600OHM/@1004HZ) : 1.0dB MAX.
2. INSERTION LOSS LONG LOOP(600OHM/@1004HZ) : 0.75dB MAX.
3. ATTENUATION DISTORTION SHORT LOOP
(@200HZ-3.4KHZ) : +1.5dB TO -0.5dB
(@3.4KHZ-4KHZ) : +2.0dB TO 0dB
4. ATTENUATION DISTORTION LONG LOOP
(@200HZ-3.4KHZ) : +0.5dB TO -0.5dB
(@3.4KHZ-4KHZ) : +1.0dB TO -0.5dB
5. RETURN LOSS (ERL) 6dB MIN.
(SRL-L) 5dB MIN.
(SHL-H) 3dB MIN.
6. LONGITUDINAL BALANCE(@200HZ TO 1KHZ) : 58dB MIN.
(@3KHZ) : 53dB MAX.
- 7.POTS TRANSIENT EFFECTS : <2Vp-p , <15KHZ

VDSL BAND REQUIREMENTS

1. VDSL BAND ATTENUATION(@32KHZ~300KHZ): 65dB MIN.
(@300KHZ~30MHZ): 55dB MIN.

ELECTRICAL REQUIREMENT ETSI 101 952-1-1

DC REQUIREMENTS:

1. TIP AND RING TO EARTH(@100VDC) : 20M OHM MIN.
2. TIP TO RING(@100VDC) : 5M OHM MIN.
3. TIP TO RING(@POTS PORT SHORTED) : 50 OHM MAX.

VOICE BAND REQUIREMENTS:

1. INSERTION LOSS (600OHM/@1000HZ) : 1.0dB MAX.
2. INSERTION LOSS DISTORTION (600OHM/200HZ~4KHZ) : 1.0dB TO -1.0dB
(@500HZ TO 2.0KHZ) : 18dB MIN.
(@2KHZ TO 3.4KHZ) : >18-(4/1.4K)(f-2K)dB
3. RETURN LOSS (@300HZ TO 500HZ) : >14+(4/200)(f-300)dB
(@500HZ TO 2.0KHZ) : 18dB MIN.
(@2KHZ TO 3.4KHZ) : >18-(4/1.4K)(f-2K)dB
4. UNBALANCE ABOUT EARTH(@50HZ TO 600HZ) : 40dB MAX..
(@600HZ TO 3400HZ) : 46dB MAX.
(@3400HZ TO 4KHZ) : 40dB MAX.
(@4KHZ TO 30KHZ) : 40dB MAX.
(@30KHZ TO 1104KHZ) : 45dB MAX.
(@1104K TO 12MHZ) : 30dB MAX.

5.POTS TRANSIENT EFFECTS : <2Vp-p , <15KHZ

VDSL BAND REQUIREMENTS

1. STOP BAND ATTENUATION Z_{RHF} (@32KHZ~30MHZ): 55dB MIN.

RoHS COMPLIANT

						Atech® Atech Technology Co., Ltd. TEL:0212794-6667 FAX:0212794-8004		TITLE VDSL2 MODULE	
								DWG. NO. ATM-125R	
	RELEASE	07/03/2007	PAIR	WILLIE	EUGENE	UNITS: M/M		SAFETY	SHEET 1 OF 1
NO:	DESCRIPTION	DATE	BY	CHK	APPD	DATE			DRAW <i>Pair</i>
REVISIONS						07/03/07			