

L-band variable Attenuator with variable slope for 26128 modular system chassis

ETL's model 26128 Modular System offers total flexibility in managing L-band signals. The modular design comprises a chassis with 16 RF slots, two hot swap dual redundant PSUs, and one CPU. Each chassis can hold up to 16 RF modules (some modules require 2 slots so can only hold

8), which can be hot swapped or hot expanded. This provides excellent resilience and scaleability.

Typical applications:

- Applications where it is necessary to continuously vary the level of a signal.
- Where signal level reduction is required between satellite dishes & teleport.



V 1.2 E&OE



Model Number: 26128-ATT100-XXXX

Technical specifications and operating parameters

Attenuator Module				
Capacity		Variable Attenuator Single channel, with variable slope compensation.		
Module Slots Used		1		
RF Connectors & Impedances		BNC 50/75 Ω , SMA 50 Ω , N-type 50 Ω , F-type 75 Ω		
Frequency Range		950-1950 MHz	100 MHz min instantaneous bandwidth	
Attenuation		0 dB to 15.5 dB	Switchable in 0.5dB steps above baseline loss	
Switchable Slope		0dB to +6 dB on 2 dB steps	Selectable slope at both gain settings	
Gain Slope Accuracy	2 dB	±0.35 dB		
	4 dB	±0.5 dB		
	6dB	±0.8 dB		
Insertion Loss at	Typical	10 ± 0.5 dB	Maximum attenuation at 0 dB attenuation setting	
setting	Maximum	10 ± 0.75 dB		
Slope variation at	Typical	± 0.5 dB	Insertion loss 10 dB max at 1450 MHz, and shall not deviate from linear variation by more than \pm 0.75 dB	
0 dB attenuation setting	Maximum	± 0.75 dB		
Insertion Loss at	Typical	X+10 ± 0.5 dB	X is the insertion loss at 0 dB attenuation setting	
10 dB attenuation setting	Maximum	X+10 ± 0.75 dB		
Insertion Loss at	Typical	X+10 ± 0.5 dB		
setting	Maximum	$X+10 \pm 0.75 dB$	At zero slope setting	
Slope variation at	Typical	± 0.5 dB	Positive slopes at +10 dB attenuation settings shall NOT deviate from linear variation by more than ±075 dB. Insertion loss at 1450 MHz to be within X+10±0.75 dB max.	
10 dB attenuation setting	Maximum	± 0.75 dB		
Gain variation within	Typical	± 0.3 dB	0 dB slope setting	
any 60 MHz	Maximum	± 0.5 dB	2, 4 or 6 dB slope setting	
Pipplo in 1 MHz	Typical	± 0.01 dB / MHz	0 dB slope setting	
RIPPIE IN 1 MHZ	Maximum	± 0.015 dB / MHz	2, 4 or 6 dB slope setting	
Gain vs Frequency Variation		0.02 dB / °C	At any spot frequency within specified frequency band.	
Group Delay	Across any 60 MHz	300ps max	Within operational frequency range	
	Across the band	500ps max		
Input Level Range		0 to -43 dBm		
Input to Input Isolation		60 dB		
Input to Output Isolation		60 dB		
Output to Input Isolation		60 dB		
Output to Output Isolation		60 dB		
RF Ports		50 ohm SMA	All RF ports	
Input RL		14 dB minimum		
Output RL		14 dB minimum		
RF Ports		All RF ports are DC blocked		

System Control			
LNB Power	None		
Power Supply	24 Vdc nominal internal from chassis. See chassis spec for input power.		
Local Control & Monitor	Push button & display. Accessible via front door.		
Remote Control & Monitor	Via CPU fitted (optional)		

Environmental			
Input RF Power	+20 dBm Total RF power, at any RF port.		
Max DC voltage on RF Ports	24 V All RF ports are DC blocked.		
Operation Temperature	0° to 45°C (indoor use only)		
Storage Temperature	-20° to 75°C		
Humidity	85% non-condensing		

Chassis Specifications				
Capacity	16 attenuator modules			
Dimensions	4U high x 450mm deep x 19" wide			
Weight	20 kg (fully populated)			
Colour	RAL9003 - White (Semi-Matte) (Front & Rear panels)			
AC Power	85-264V AC (50/60Hz)			
PSU	Dual redundant, hot-swap			
Remote Control & Monitor	Via CPU as fitted, see chassis specifications			

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

Please see separate datasheet for full 26128 chassis specifications.



Esatcom Inc. www.esatcom.com Tel: 718.276.0800 Email: sales@esatcom.com





