

Test Loop Translator - Dual Channel

The ALD series of Ka and Ku Band Test Loop Translators feature dual channel operation with the ability to introduce different transfer characteristics in each channel.

Typical applications:

- Synthesised LO
- Simultaneous Operation
- Local & Remote Ethernet Control
- Extremely Versatile
- Standard & Custom Options



Operating Frequency
Range in Ka & Ku Band



Compact
2U high chassis



Local Front & Remote Control Monitoring
Front panel and Ethernet Remote Controlled



Synthesised LO



General Specification		Environmental				
Maximum Input Level	+10dBm	Operating Temperature		0 to +50C (see options)		
Conversion Gain Flatness	+/-2dB typ. +/-0.5dB/40MHz max	Storage Temperature		-10 to +70C		
Impedance	50 ohms	Physical				
Input VSWR	1.3:1 typical	Dimensions		19" x 1U x 13.5" (343mm) excl. connectors & protrusions		
Output VSWR	1.3:1 typical	Fixed LO Phase Noise dBc/Hz (typical) (GHz)				
Signal Related Spurious	-25dBc typical	Offset Frequency	2.0	10.0	12.0	27.0
LO Related Spurious & Non Signal or LO Related	-30dBm typical -60dBm minimum	100Hz	-80	-70	-65	-60
Lock Alarm	LED, Front Panel & Ethernet	1KHz	-90	-85	-75	-70
Input Connector	2.92mm Female Ka band SMA Female Ku Band	10KHz	-95	-90	-80	-75
Output Connector	SMA Female	100KHz	-95	-90	-80	-80
Reference Input Connector	BNC Female	1MHZ	-120	-115	-115	-110
Ethernet Connector	RJ45					
Power						
Input Power	80-240V, 50-60Hz					
Input Power Connector	IEC with Fuse					

General Specification				
Model Number	Direction	Input Frequency Range	Output Frequency Range	LO Frequency Range
ALD-Ka-1001	Channel 1	27.5-31.5GHz	0.95-1.70 GHz	26.55-29.80GHz
	Channel 2	0.95-1.70 GHz	17.7-21.2GHz	16.75-19.50GHz
ALD-Ku-1002	Channel 1	12.75-14.5GHz	0.95-1.70 GHz	11.80-13.05GHz
	Channel 2	0.95-1.70 GHz	17.7-21.2GHz	9.75-11.05GHz

Options:

- TLT01 1.0dB Attenuation Steps
- TLT02 Input/Output Filters for 60dB Isolation
- TLT03 LO Filter for 60dB LO Rejection
- TLT04 Input/Output Isolators for 1.3:1 VSWR
- TLT05 Outdoor Weatherproof Housing -20 to +70C (No LCD)
- TLT06 Internal Battery Charger

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.

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