

LA-140 A/B HIGH POWER GaAs-FET AMPLIFIER

Features

- High power GaAs-FET amplifier
- Low distortion and low noise
- High gain, switchable 30 / 40 dB
- Electronic step attenuators for slope and loss on board
- Integrated LED 7-segment display
- Most flexible configuration by plug-in PAD stations
- 2 outputs by splitter or tap
- Return path amplifier -4/24/30 dB and diplexers on board
- AGC module available
- 10 A power pass
- High protection against burst and surge up to 4,5 kV
- Strand (option) and cabinet mount (standard)
- Vertical and horizontal cable entry possible



Downstream	Units	LA 140-B	LA 140-A
Frequency range	MHz	85 - 1006 (fixed diplexer) Diplexer 30/47 or 42/54 MHz optional	
Gain	dB	30 / 40 (switchable)	
Noise figure	dB	5	
Flatness	dB	± 0,5	
Attenuator	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Equalizer	dB	0 ... 25 (electronic attenuator by 1 dB steps)	
Interstage attenuation	dB	0, 1, 2 10 (by PAD's in 1 dB steps)	
Interstage equalizer	dB	3, 6, 9, 12 (by PAD's EZL)	
Testpoint input, 5-1006 MHz	dB	-20 (F-connector, internal)	
Testpoint output, 5-1006 MHz	dB	-20 (F-connector, internal)	
Return loss input / output	dB	> 20 at 40 MHz (-1,5 dB/octave up to 1006 MHz)	
Output level 41 channel CENELEC CSO > 60 dB CTB > 60 dB		slope 6 dB	
	dBμV	113	
	dBμV	111	
Upstream	Units	LA 140-B	LA 140-A
Frequency range	MHz	5 - 65 (fixed diplexer) Diplexer 30/47 or 42/54 MHz optional	
Gain	dB	-4 / 24 / 32 (passive / active by jumper selectable)	
Noise figure	dB	6	
Flatness	dB	± 0,5	
Input attenuator		0, 1, 2 20 (by PAD's in 1 dB steps)	
Output attenuator	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Output equalizer	dB	0 ... 20 (electronic attenuator by 1 dB steps)	
Testpoint 5-65 GHz	dB	-20 (F-connector, internal)	
Output level IMA 2 -60 dB (DIN 45004A1) IMA 3 -60 dB (DIN 45004B)	dBμV	108	
	dBμV	116	

General	Units	LA 140-B	LA 140-A
Operating voltage	V	185 - 265	28 - 70
Power consumption	W	14	0,6 ... 0,3 A
Power passing capability	A	-	10
Connectors		PG11 or 5/8	
Protection according to IEC 529		IP65	
Operating temperature range	°C	-20 ... 60	
Dimensions	mm	225 x 190 x 86	
Weight	kg	2,4	