



Distribution amplifiers

Universal distribution amplifier

- combined type of power supply for local or remote powering
- GaAs push-pull technology
- flexibility provided by plug-in return path diplexers
- plug-in interstage attenuator and equalizer for improving amplifier performance
- weatherproof and RF-screened die-cast housing
- switch-mode power supply unit
- transient protection at all inputs and outputs



Technical specifications

T Y P E		DA213C
Ordering number		00894
Frequency range*		47/75/87-862 MHz
Return path*		5-30/55/65 MHz
Input and output impedance		75 Ω
Gain, 20°C		24 dB**
Flatness		± 0.5 dB/± 0.75 dB**
Input and output return loss		18 dB/40 MHz-1.5 dB/octave
Gain adjustment		18 dB
Slope adjustment		18 dB
Noise figure		max. 6 dB
Output level CTB (EN50083-3)		112 dBμV (42 ch.)
Output level CSO (EN50083-3)		113 dBμV (42 ch.)
Mains voltage, 50 Hz		24÷65 V~ / 187-250 V~
Power consumption, max.		16/15 W
Current consumption	24 V AC	0.95 A/-
	42 V AC	0.61 A/-
	65 V AC	0.45 A/-
Maximal AC pass current		7 A
Loss in internal input test point (transformer)		-20 ± 2.0 dB
Loss in internal output test point (directional)		-20 ± 0.5 dB
Input and outputs connectors		PG11
Test point connectors		F
Hum modulation distance (7 A)		min. 65 dB
Enclosure category		IP 64
Operating temperature range		-20° ± + 50° C
Dimensions/Weight (packed)		229x159x87 mm (main body); 261x159x87 mm (with fixing ears)/2.5 kg

* frequency range depends on inserted plug-in diplexer

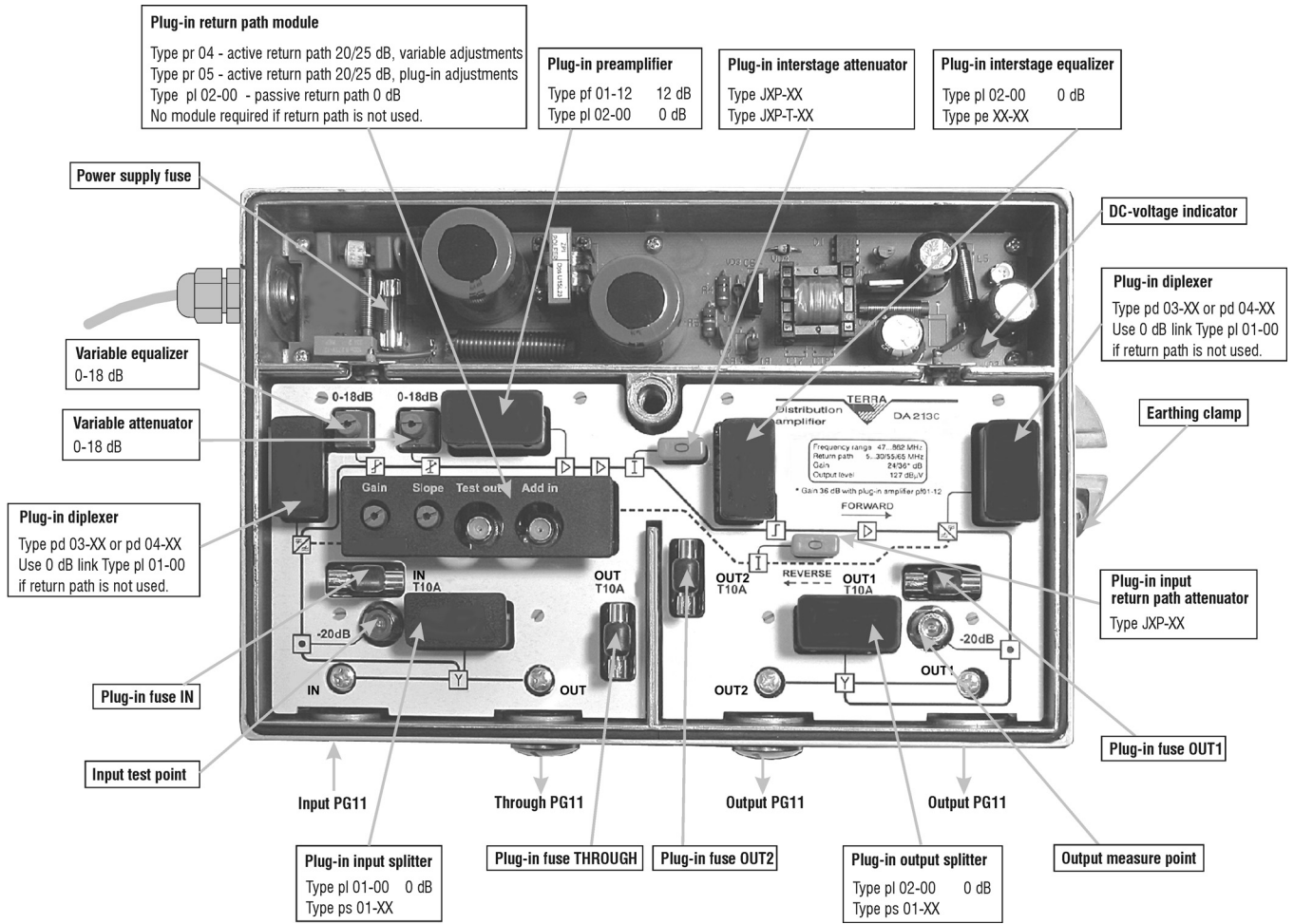
** 36 ± 0.75 dB for amplifier with plug-in pf 01-12

All parameters are measured with links pl 01-00 instead of return path diplexers, plug-in input splitter; pl 02-00 instead of plug-in equalizer, plug-in output splitter, preamplifier; JXP-0.
Output level (CTB, CSO) is measured with 6 dB interstage equalizer.

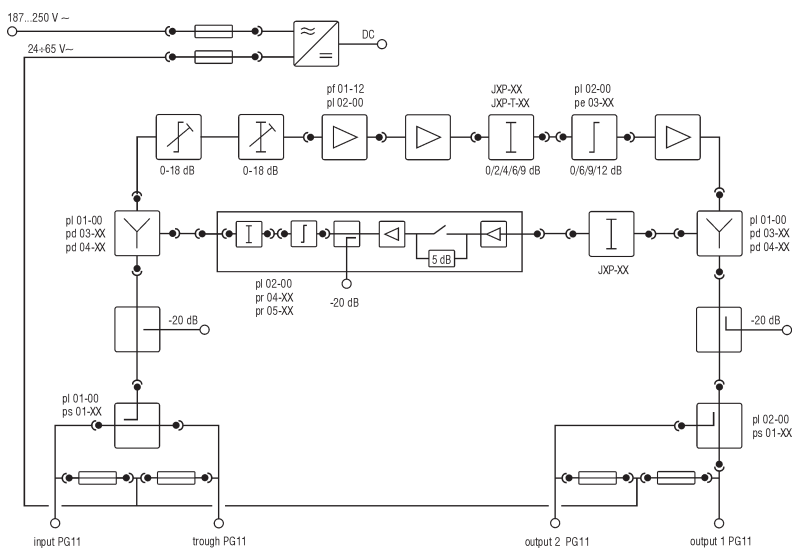


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Structure diagram



Ordering notes

Band	no return path 30/47 MHz 55/75 MHz 65/87 MHz	2 x pl 01-00 2 x pd 03-30 (pd 04-30) 2 x pd 03-55 (pd 04-55) 2 x pd 03-65 (pd 04-65)
Input	0 dB input, no through 3.5 dB through/3.5 dB input 2.0 dB through/6.0 dB input 1.5 dB through/10 dB input 1.0 dB through/14 dB input 0.5 dB through/18 dB input	pl 01-00 ps 01-03 ps 01-06 ps 01-10 ps 01-14 ps 01-18
Output	0 dB output1/no output 2 3.5 dB output1/3.5 dB output 2 2.0 dB output1/6.0 dB output 2 1.5 dB output1/10 dB output 2 1.0 dB output1/14 dB output 2 0.5 dB output1/18 dB output 2	pl 02-00 ps 01-03 ps 01-06 ps 01-10 ps 01-14 ps 01-18
Return path	0 dB passive 0-20 dB by 1 dB step, passive 20/25 dB gain 30 MHz, variable adjustments 20/25 dB gain 55 MHz, variable adjustments 20/25 dB gain 65 MHz, variable adjustments 20/25 dB gain 30 MHz, plug-in adjustments 20/25 dB gain 55 MHz, plug-in adjustments 20/25 dB gain 65 MHz, plug-in adjustments	pl 02-00 + JXP-0 pl 02-00 + JXP-XX pr 04-30 + JXP-XX pr 04-55 + JXP-XX pr 04-65 + JXP-XX pr 05-30 + 3 x JXP-XX pr 05-55 + 3 x JXP-XX pr 05-65 + 3 x JXP-XX
Interstage	attenuator 0-10 dB by 1 dB step thermal attenuator 1-4 dB equalizer 862 MHz	JXP-XX JXP-T-XX pe 03-XX