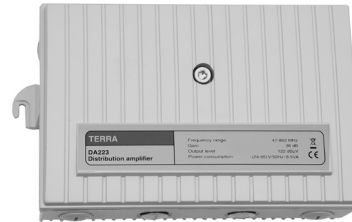




# Distribution amplifiers

## Universal distribution amplifiers

- GaAs push-pull technology
- flexibility provided by plug-in return path diplexers
- plug-in interstage attenuator and equalizer for improving amplifier performance
- plug-in inverse equalizer
- weatherproof and RF-screened die-cast housing
- switch-mode power supply unit
- possibility to inject supply voltage for remote powering (DA2XX)
- transient protection at all inputs and outputs

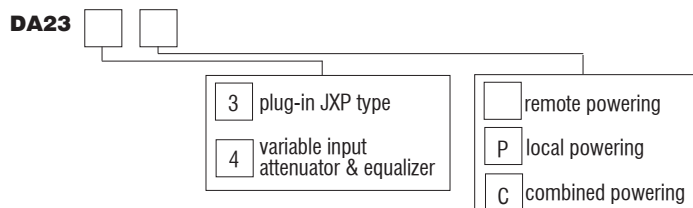


Technical specifications		TYPE		
	DA23X	DA23XP	DA23XC	
Frequency range*		47/75/87-862 MHz		
Return path*		5-30/55/65 MHz		
Input and output impedance		75 Ω		
Gain, 20°C		36 dB		
Flatness		± 0.75 dB		
Input and output return loss		18 dB/40 MHz-1.5 dB/octave		
Input attenuator		0-18 dB		
Input cable equalizer		0-18 dB		
Inverse cable equalizer		0-9 dB in 1 dB step		
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~	24÷65 V~/187-250 V~	
Power consumption, max.	17 W	14.5 W	17/14.5 W	
Current consumption	24 V AC	1 A	-	1 A/-
	42 V AC	0.67 A	-	0.67 A/-
	65 V AC	0.5 A	-	0.5 A/-
Maximal AC pass current		7 A		
Loss in internal input test point (bi-directional)		-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

\*\* output level (CTB, CSO) is measured with 6 dB interstage equalizer

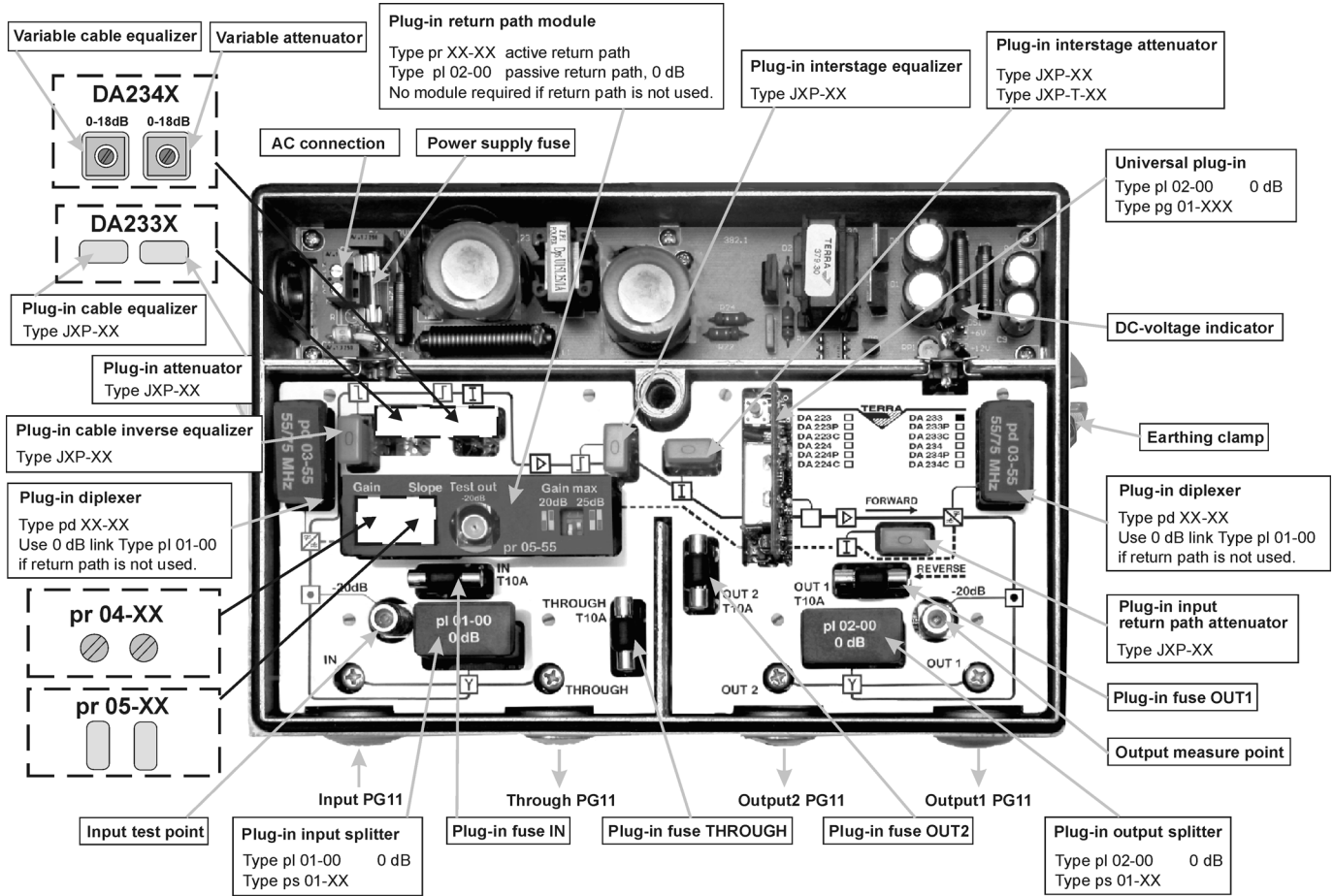
All parameters are measured with links pl 01-00 instead of return path diplexers, plug-in input splitter; pl 02-00 instead of plug-in output splitter and in universal slot; JXP-0 instead of input attenuator, cable equalizer, cable inverse equalizer; interstage attenuator and cable equalizer.



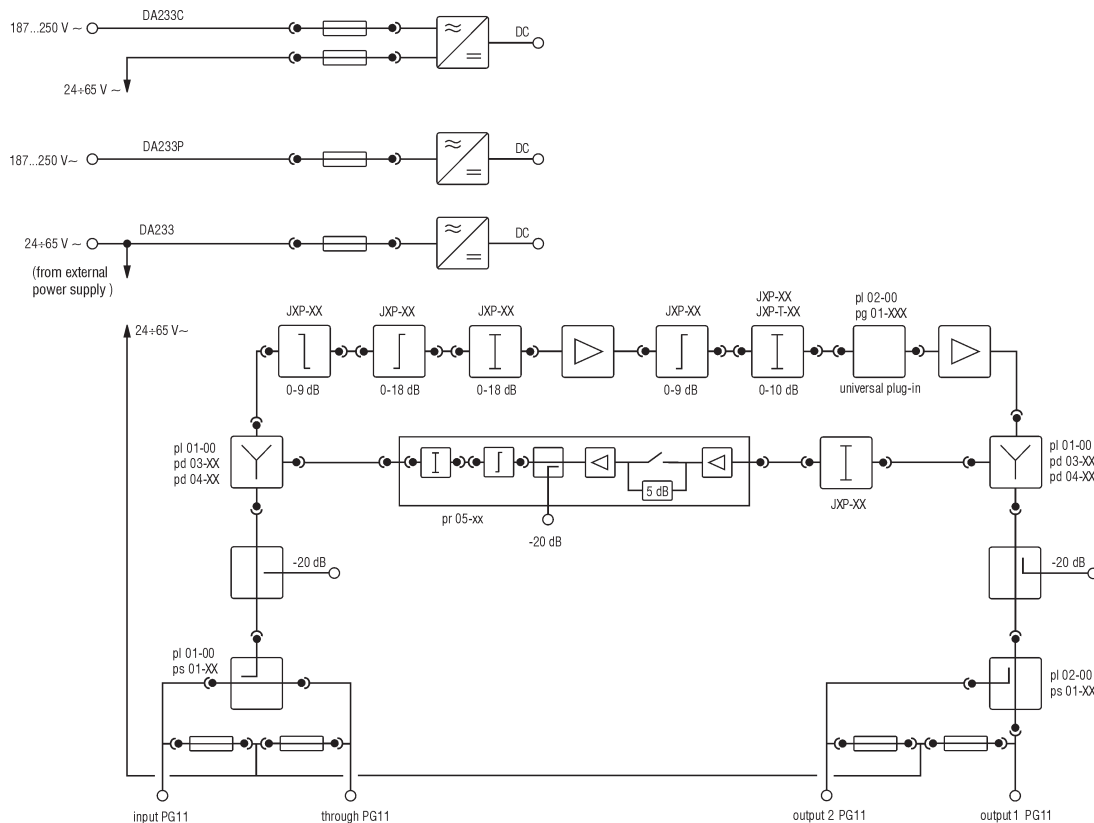


# Distribution amplifiers

## Universal distribution amplifiers



### Structure diagram of DA233X

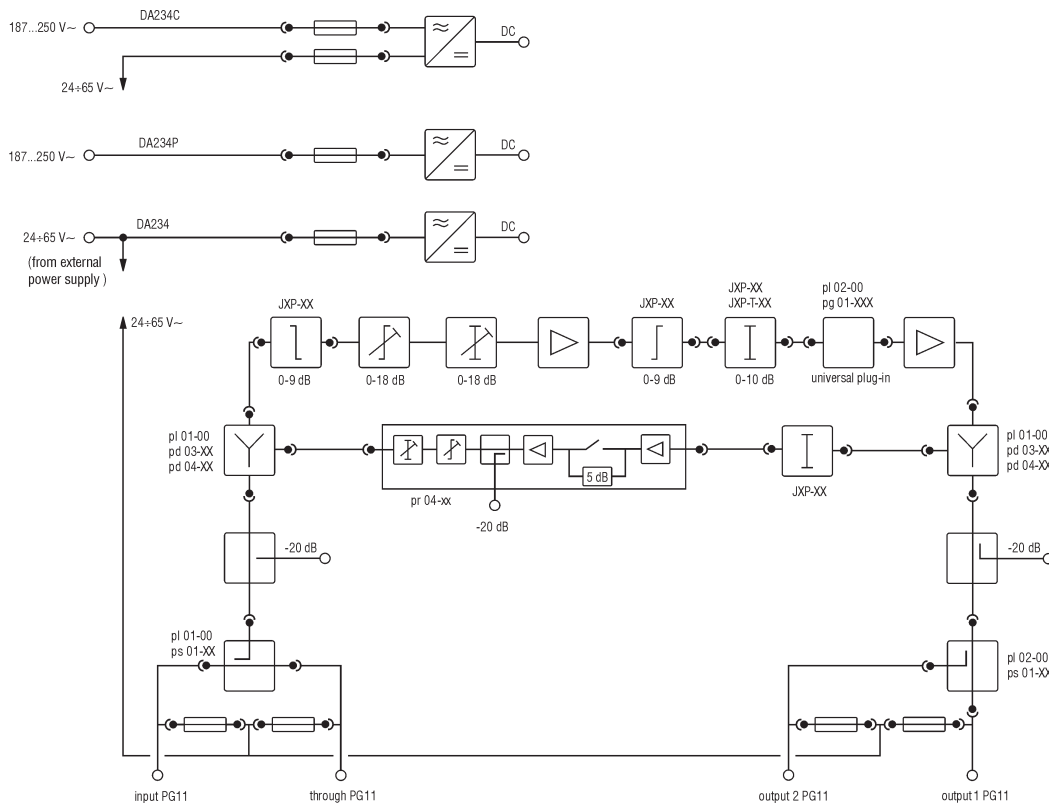




# Distribution amplifiers

## Universal distribution amplifiers

### Structure diagram of DA234X



### Ordering notes

<b>Band</b>	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)
<b>Input</b>	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
<b>Output</b>	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
<b>Return path</b>	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
<b>Input adjustments</b>	cable simulator 0-9 dB by 1 dB step attenuator 0-20 dB by 1 dB step (for DA2X3X only) equalizer 0-20 dB by 1 dB step (for DA2X3X only)	JXP-XX JXP-XX JXP-XX
<b>Interstage</b>	attenuator 0-10 dB by 1 dB step equalizer 0-9 dB by 1 dB step thermal attenuator 1-4 dB	JXP-XX JXP-XX JXP-T-XX
<b>Universal slot</b>	0 dB passive automatic gain control module	pl 02-00 pg 01-XXX

### Ordering number

<b>DA233</b>	11862
<b>DA233P</b>	11864
<b>DA233C</b>	11866
<b>DA234</b>	11863
<b>DA234P</b>	11865
<b>DA234C</b>	11867