



## MiniFlex Super Distribution Amplifiers 900 MHz



The ACI MiniFlex super distribution amplifier is a versatile platform with improved flexibility for use in hybrid fiber coax distribution architectures.

- ◆ 900 MHz may be dropped into the 750 MHz spacing
- ◆ Common 1 GHz housing platform
- ◆ 15 amp power passing
- ◆ Optional, plug-in surge protection (SDA)
- ◆ CE qualified (SDA)
- ◆ -20 dB directional coupler test points
- ◆ AGC or thermal options
- ◆ 5 - 42 or 55 or 65 MHz reverse path
- ◆ Plug-in attenuator pads for each reverse path
- ◆ Plug-in equalizers
- ◆ Test points for each reverse path



ACI Communications, Inc.			Trunk Amplifier, SDAT 900 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs			
STATION PARAMETERS:		900 MHz 42-53 MHz Split				
		CONDITIONS	UNITS	SPECIFICATIONS		NOTES
Housing passband			MHz	5 to 1000		
Input current capacity	Any port, worst case		Amperes	15		
Frequency range			MHz	5 - 10	11 - 600	600 - 750 751 - 900
Hum modulation	Time domain @ rated current above		-dBc	55	65	60 55
Station passband			MHz	54 to 890		890 to 900
Return loss	Any port, worst case		dB	17.0		16.0
<b>Test Points</b>						
Test point type	Directional coupler		N / A			
Test point level			-dB	20.0		Fwd & Rev
Test point accuracy	Forward TP		±dB	0.5		
Frequency range			MHz	5 to 7	7 to 42	
Test point accuracy	Reverse TP		±dB	0.75	0.5	
Test point accuracy	Reverse Injection		±dB	0.75	0.5	
<b>Operational Specifications</b>						
Station passband			MHz	54 to 890	890 to 900	
Station flatness - trunk out	Normalized w / 0 dB slope		dB	±0.5	+0.5 / -1.0	
Station flatness - feeder out	Normalized w / 0 dB slope		dB	±0.75	+0.75 / -1.25	
Gain - trunk (Type 1A & 1T)	±0.5 @ 900 MHz +0.5/-0 @ 890 MHz		dB	31.0		Temperature stabilized
Gain - feeder (Type 1A & 1T)		41.0				
Gain - trunk (Type 1M)		34.0				
Gain - feeder (Type 1M)		44.0				
Gain control type			N / A	Plug-in pads		
Gain control steps	Pad value steps		dB	0.5		
<b>Station Slope</b>						
Operational slope - trunk & feeders	@ 54 / 550 / 900 MHz		dB	0 / 8.5 / 14.5		Linear slope @ 900 MHz
Slope control type	Cable equalizers		dB	Plug-in EQ's		
Slope control range	Includes cable equivalent		dB	-21.0 to +21.0		
Slope control steps	Equalizer value steps		dB	1.5 cable steps		Approx. 1.1 dB slope steps
<b>Station Group Delay</b>						
Group delay	Channel 2 (Std)		nSec / 3.58 MHz	30		Typical 25
Group delay	Channel 3		nSec / 3.58 MHz	16		
Group delay	Channel 4		nSec / 3.58 MHz	10		
Group delay	Channel 5 & >		nSec / 3.58 MHz	3		
<b>AGC</b>						
Type			N / A	Single channel pilot AGC		
Range			dB	8.0		System compensation input change -3/+5 @ 900 MHz
Accuracy			±dB	0.5		
Nominal loss			dB	5.5		Loss @ room temp
Center frequency bandwidth			Fc ± kHz	150		

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ACI Communications, Inc.			Trunk Amplifier, SDAT 900 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs				
550 MHz analog channel loading, 79 channels +350 MHz digital channel loading, 256 QAM at -6 dBc relative to its associated visual carrier							
Station Output Levels							
Trunk out Port 2	@ 54 / 550 / 900 MHz	dBmV	26.5 / 35.0 / 41.0				
Feeder out Port 3 & 4	@ 54 / 550 / 900 MHz	dBmV	36.5 / 45.0 / 51.0				
Station Noise Figure							
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.6				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 550 MHz	dB	8.3				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 900 MHz	dB	10.1				
Station Distortions			Trunk WC	Trunk Ty.	Feeder WC	Feeder Ty.	WC=worst case Ty.=Typical
Composite Triple Beat (CTB)		-dBc	82.0	84.0	73.0	75.0	
Cross Modulation (XMOD)		-dBc	79.0	81.0	68.0	70.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	71.0	73.0	68.0	70.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	73.0	75.0	72.0	74.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	80.0	82.0	71.0	73.0	

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ACI Communications, Inc.				Trunk Amplifier, SDAT 900 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs		
REVERSE SPECTRUM:						
REVERSE - CHANNEL LOADING						
	Typically 23 each, 1.5 MHz wide QPSKcChannels.					
Reverse - General		CONDITIONS	UNITS	SPECIFICATION	NOTES	
Station passband			MHZ	5 TO 42		
Station flatness		Normalized w / 0 dB slope	±dB	0.5		
Reverse - Station Gain						
Gain		+0.5/-0 @ 40 MHz	dB	18.0	Temperature stabilized	
Gain control type			N / A	Plug-in pads		
Gain control range			dB	12.0		
Gain control steps		Pad value steps	dB	0.5		
Reverse - Station Slope						
Slope control type		Cable equalizers	N / A	Plug-in EQs		
Slope control range			dB	0 TO 12.0		
Slope control steps		Equalizer value steps	dB	1.5 cable steps	Approx 1.1 dB slope steps	
Reverse - Station Output Levels						
@ Forward input port		Average	dBmV	35.0		
Reverse - Noise Figure						
Station noise figure (w / EQ)		Across the bandwidth	dB	13.0		
REVERSE - STATION DISTORTIONS						
Composite Second Order (CSO)		6 channel loading	-dBc	82.0		
Composite Tripe Beat (CTB)		6 channel loading	-dBc	90.0		
Cross Modulation (XMOD)		6 channel loading	-dBc	80.0		
Reverse - Station Group Delay						
Group delay		5 MHz	nSec / 1.5 MHz	36		
Group delay		7 MHz	nSec / 1.5 MHz	16		
Group delay		10 MHz	nSec / 1.5 MHz	4		
Group delay		35 MHz	nSec / 1.5 MHz	8		
Group delay		38.5 MHz	nSec / 1.5 MHz	25		
Power Requirements:						
Station configuration		Includes reverse	N / A	AGC	Thermal	Manual
Power Requirements		Worst case	W	44.2	42.5	42.1
AC Voltage						
Input ranges			VAC	40-90		
Current Draw (with AGC)						
@ 40 VAC		Maximum	A	1.26		
@ 50 VAC		Maximum	A	1.06		
@ 60 VAC		Maximum	A	0.93		
@ 70 VAC		Maximum	A	0.85		
@ 80 VAC		Maximum	A	0.78		
@ 90 VAC		Maximum	A	0.71		
Environmental						
Operating temperature			°F (°C)	-40 to +140 (-40 to +60)		
Physical						
Dimensions (H X W X D)			In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)		
Weight			lbs. (kg)	16.0 (7.26)		

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ACI Communications, Inc.			Bridger Amplifier, SDAB 900 MHz (Type 2) 2 Feeder Outputs				
STATION PARAMETERS:		900 MHz 42-53 MHz Split					
Description	CONDITIONS	UNITS	SPECIFICATION				NOTES
Housing passband		MHz	5 to 1000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 900	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Station passband		MHz	54 to 890		890 to 900		
Return loss	Any port, worst case	dB	17.0		16.0		
Test Points							
Test point type	Directional coupler	N / A					
Test point level(s)		-dB	20.0				Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7		7 to 42		
Test point accuracy	Reverse TP	±dB	0.75		0.5		
Test point accuracy	Reverse injection	±dB	0.75		0.5		
Operational Specifications							
Station passband		MHz	54 to 890		890 to 900		
Station flatness - feeder out	Normalized w / 0 dB slope	dB	±0.75		+0.75 / -1.25		
Gain feeder (Type 2A & 2T)	±0.5 @ 900 MHz +0.5/-0 @ 890 MHz	dB	42.0				Temperature stabilized
Gain feeder (Type 2M)			45.0				
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
Station Slope							
Operational slope	@ 54 / 550 / 900 MHz	dB	0 / 8.5 / 14.5				Linear slope @ 900 MHz
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5 cable steps				Approx. 1.1 dB slope steps
Station Group Delay							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
AGC							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 900 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc ±kHz	150				

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ACI Communications, Inc.			Bridger Amplifier, SDAB 900 MHz (Type 2) 2 Feeder Outputs		
550 MHz analog channel loading, 79 channels +350 MHz digital channel loading, 256 QAM at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 3 & 4	@ 54 / 550 / 900 MHz	dBmV	36.5 / 45.0 / 51.0		
Station Noise Figure					
Noise figure (w /1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.5		
Noise figure (w /1 dB for input EQ loss)	Typical @ 550 MHz	dB	8.5		
Noise figure (w /1 dB for input EQ loss)	Typical @ 900 MHz	dB	10.2		
Station Distortions			Worst Case	Typical	
Composite Triple Beat (CTB)		-dBc	71.0	73.0	
Cross Modulation (XMOD)		-dBc	65.0	67.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	70.0	72.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz )	-dBc	70.0	72.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	69.0	71.0	

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ACI Communications, Inc.			Bridger Amplifier, SDAB 900 MHz (Type 2) 2 Feeder Outputs			
REVERSE SPECTRUM:						
Reverse - Channel Loading						
Typically 23 each, 1.5 MHz wide QPSK channels.						
Reverse - General		CONDITIONS	UNITS	SPECIFICATION	NOTES	
Station passband			MHz	5 to 42		
Station flatness		Normalized w / 0 dB slope	±dB	0.5		
Reverse - Station Gain						
Gain		+0.5/-0 @ 40 MHz	dB	18.0	Temperature stabilized	
Gain control type			N / A	Plug-in pads		
Gain control range			dB	12.0		
Gain control steps		Pad value steps	dB	0.5		
Reverse - Station Slope						
Slope control type		Cable equalizers	N / A	Plug-in EQs		
Slope control range			dB	0 TO 12.0		
Slope control steps		Equalizer value steps	dB	1.5 cable steps	Approx 1.1 dB slope steps	
Reverse - Station Output Levels						
@ Forward input port			dBmV	35.0		
Reverse - Noise Figure						
Station noise figure (w/EQ)		Across the bandwidth	dB	13.0		
Reverse - Station Distortions						
Composite Second Order (CSO)		6 channel loading	-dBc	82.0		
Composite Triple Beat (CTB)		6 channel loading	-dBc	90.0		
Cross Modulation (XMOD)		6 channel loading	-dBc	80.0		
Reverse - Station Group Delay						
Group delay		5 MHz	nSec / 1.5 MHz	36		
Group delay		7 MHz	nSec / 1.5 MHz	16		
Group delay		10 MHz	nSec / 1.5 MHz	4		
Group delay		35 MHz	nSec / 1.5 MHz	8		
Group delay		38.5 MHz	nSec / 1.5 MHz	25		
Power Requirements:						
Station configuration		Includes reverse	N / A	AGC	Thermal	Manual
Power Requirements		Worst case	W	42.6	40.0	39.5
AC Voltage						
Input Ranges			VAC	40-90		
Current Draw (with AGC)						
@ 40 VAC		Maximum	A	1.26		
@ 50 VAC		Maximum	A	1.07		
@ 60 VAC		Maximum	A	0.96		
@ 70 VAC		Maximum	A	0.88		
@ 80 VAC		Maximum	A	0.79		
@ 90 VAC		Maximum	A	0.73		
Environmental						
Operating temperature			°F (°C)	-40 to +140 (-40 to +60)		
Physical						
Dimensions (H X W X D)			In. (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)		
Weight			lbs. (kg)	16.0 (7.26)		

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ACI Communications,		Dual Output Line Extender, SDLA 900 MHz (Type 3 Dual) 2 Output Line Extender				
STATION PARAMETERS:		900 MHz 42-53 MHz Split				
Description	CONDITIONS	UNITS	SPECIFICATION			NOTES
Housing passband		MHz	5 to 1000			
Input current capacity	Any port, worst case	Amperes	15			
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 900
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55
Station passband		MHz	54 to 890		890 to 900	
Return loss	Any port, worst case	dB	17.0		16.0	
<b>Test Points</b>						
Test point type	Directional coupler	N / A				
Test point level(s)		-dB	20.0			Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5			
Frequency range		MHz	5 to 7		7 to 42	
Test point accuracy	Reverse TP	±dB	0.75		0.5	
Test point accuracy	Reverse injection	±dB	0.75		0.5	
<b>Operational Specifications</b>						
Station passband		MHz	54 to 890		890 to 900	
Station flatness - feeder out	Normalized w / 0 dB slope	dB	±0.5		+0.5 / -1.0	
Gain (Type 3A or 3T Dual)	±0.5 @ 900 MHz +0.5/-0 @ 890 MHz	dB	32.0			Temperature stabilized
Gain (Type 3M Dual)			36.0			
Gain control type		N / A	Plug-in pads			
Gain control steps	Pad value steps	dB	0.5			
<b>Station Slope</b>						
Operational slope	@ 54 / 550 / 900 MHz	dB	0 / 8.5 / 14.5			Linear slope @ 900 MHz
Slope control type	Cable equalizers	N / A	Plug-in EQ's			
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0			
Slope control steps	Equalizer value steps	dB	1.5			Approx 1.1 dB slope steps
<b>Station Group Delay</b>						
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30			Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16			
Group delay	Channel 4	nSec / 3.58 MHz	10			
Group delay	Channel 5 & >	nSec / 3.58 MHz	3			
<b>AGC</b>						
Type		N / A	Single channel pilot AGC			
Range		dB	8.0			System compensation input change -3/+5 @ 900 MHz
Accuracy		±dB	0.5			
Nominal loss		dB	5.5			Loss @ room temp
Center frequency bandwidth		Fc ± kHz	150			

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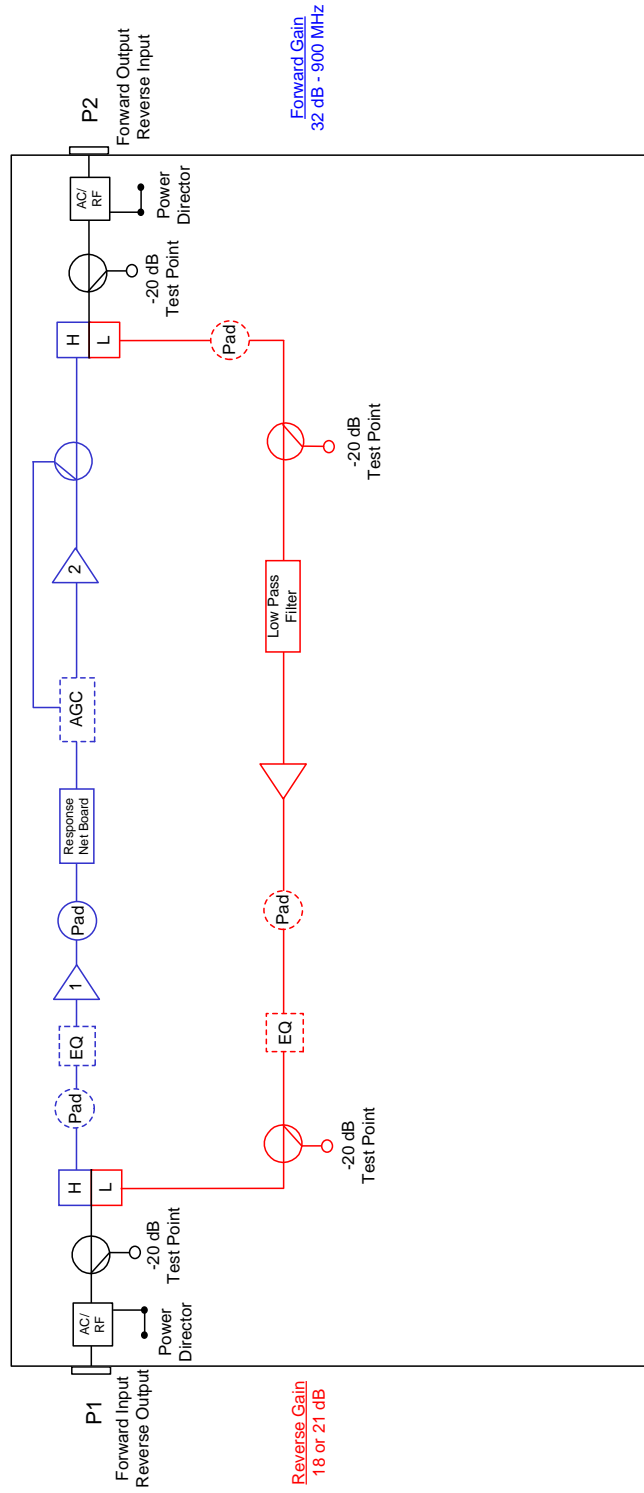
<b>ACI Communications, Inc.</b>		Dual Output Line Extender, SDLA 900 MHz (Type 3 Dual) 2 Output Line Extender			
550 MHz analog channel loading, 79 channels +350 MHz digital channel loading, 256 QAM at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 2 & 4	@ 54 / 550 / 900 MHz	dBmV	36.5 / 45.0 / 51.0		
Station Noise Figure					
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.0		
Noise figure (w / 1 dB for input EQ loss)	Typical @ 550 MHz	dB	7.5		
Noise figure (w / 1 dB for input EQ loss)	Typical @ 900 MHz	dB	9.5		
Station Distortions			Worst Case	Typical	
Composite Triple Beat (CTB)		-dBc	71.0	73.0	
Cross Modulation (XMOD)		-dBc	67.0	69.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	68.0	70.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz )	-dBc	73.0	75.0	
Composite Intermodulation Noise (CIN)		-dBc	69.0	71.0	

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ACI Communications, Inc.		Dual Output Line Extender, SDLA 900 MHz (Type 3 Dual) 2 Output Line Extender				
REVERSE SPECTRUM:						
Reverse - Channel Loading	CONDITIONS	UNITS	SPECIFICATION			NOTES
	Typically 23 each, 1.5 MHz wide QPSK channels.					
Reverse - General						
Station passband		MHz	5 to 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	+0.5/-0 @ 40 MHz	dB	18.0			Temperature stabilized
Gain control type		N / A	Plug-in pads			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type		N / A	Plug-in EQ's			
Slope control range		dB	0 TO 12			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			Approx 1.1 dB slope steps
Reverse - Station Output Levels						
@ Forward input port		dBmV	35.0			
Reverse - Noise Figure						
Station Noise Figure ( w / EQ)		dB	8.5			
Reverse - Station Distortions						
Composite Second Order (CSO)	6 channel loading	-dBc	82.0			
Composite Triple Beat (CTB)	6 channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	32.8	31.3	30.9	
AC Voltage						
Input ranges		VAC	40-90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	1.01			
@ 50 VAC	Maximum	A	0.88			
@ 60 VAC	Maximum	A	0.78			
@ 70 VAC	Maximum	A	0.72			
@ 80 VAC	Maximum	A	0.65			
@ 90 VAC	Maximum	A	0.60			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical						
Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	14.5 (6.58)			

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### SDLE & ALX High Performance (Type 3A, 3T, & 3M) 900 MHz Amplifier Block Diagram



**Note:**  
 1. Forward gain stated at 900 MHz with AGC. Reverse gain stated at 40 MHz.

ACI Communications,			Line Extender, SDLE & ALX 900 MHz (Type 3) 1 Output Line Extender				
STATION PARAMETERS:		900 MHz 42-53 MHz Split					
Description	CONDITIONS	UNITS	SPECIFICATION				NOTES
Housing passband		MHz	5 to 1000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 900	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Station passband		MHz	54 to 890		890 to 900		
Return loss	Any port, worst case	dB	17.0		16.0		
<b>Test Points</b>							
Test point type	Directional coupler	N / A					
Test point level(s)		-dB	20.0				Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7		7 to 42		
Test point accuracy	Reverse TP	±dB	0.75		0.5		
Test point accuracy	Reverse injection	±dB	0.75		0.5		
<b>Operational Specifications</b>							
Station passband		MHz	54 to 890		890 to 900		
Station flatness - feeder out	Normalized w / 0 dB slope	dB	±0.5		+0.5 / -1.0		
Gain (Type 3A or 3T)	±0.5 @ 900 MHz +0.5/-0 @ 890 MHz	dB	32.0				Temperature stabilized
Gain (Type 3M)			36.0				
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
<b>Station Slope</b>							
Operational slope	@ 54 / 550 / 900 MHz	dB	0 / 8.5 / 14.5				Linear slope @ 900 MHz
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5				Approx 1.1 dB slope steps
<b>Station Group Delay</b>							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
<b>AGC</b>							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 900 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc ± kHz	150				

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<b>ACI Communications, Inc.</b>		Line Extender, SDLE & ALX 900 MHz (Type 3) 1 Output Line Extender			
550 MHz analog channel loading, 79 channels +350 MHz digital channel loading, 256 QAM at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 2	@ 54 / 550 / 900 MHz	dBmV	36.5 / 45.0 / 51.0		
Station Noise Figure					
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	9.5		
Noise figure (w / 1 dB for input EQ loss)	Typical @ 550 MHz	dB	7.5		
Noise figure (w / 1 dB for input EQ loss)	Typical @ 900 MHz	dB	10.0		
Station Distortions			Worst Case	Typical	
Composite Triple Beat (CTB)		-dBc	71.0	73.0	
Cross Modulation (XMOD)		-dBc	65.0	67.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	68.0	70.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz )	-dBc	74.0	76.0	
Composite Intermodulation Noise (CIN)		-dBc	69.0	71.0	

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ACI Communications, Inc.			Line Extender, SDLE & ALX 900 MHz (Type 3) 1 Output Line Extender			
REVERSE SPECTRUM:						
Reverse - Channel Loading	CONDITIONS	UNITS	SPECIFICATION			NOTES
	Typically 23 each, 1.5 MHz wide QPSK channels.					
Reverse - General						
Station passband		MHz	5 to 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	+0.5/-0 @ 40 MHz	dB	18.0 or 21.0			Temperature stabilized
Gain control type		N / A	Plug-in pads			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type		N / A	Plug-in EQ's			
Slope control range		dB	0 TO 12.0			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			Approx 1.1 dB slope steps
Reverse - Station Output Levels						
@ Forward input port		dBmV	35.0			
Reverse - Noise Figure						
Station Noise Figure ( w / EQ)		dB	8.5			
Reverse - Station Distortions						
Composite Second Order (CSO)	6 channel loading	-dBc	82.0			
Composite Triple Beat (CTB)	6 channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	27.1	25.6	25.1	
AC Voltage						
Input ranges		VAC	40-90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	0.75			
@ 50 VAC	Maximum	A	0.63			
@ 60 VAC	Maximum	A	0.55			
@ 70 VAC	Maximum	A	0.50			
@ 80 VAC	Maximum	A	0.45			
@ 90 VAC	Maximum	A	0.43			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical (SDLE)						
Dimensions (H X W X D)		In. (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	14.5 (6.58)			
Physical (ALX)						
Dimensions (H X W X D)		In. (cm)	4.00 X 14.25 X 9.00 (10.2 X 36.2 X 22.9)			
Weight		lbs. (kg)	11.0 (4.99)			

Confidential  
Information contained in this document is subject to change without notice.  
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