



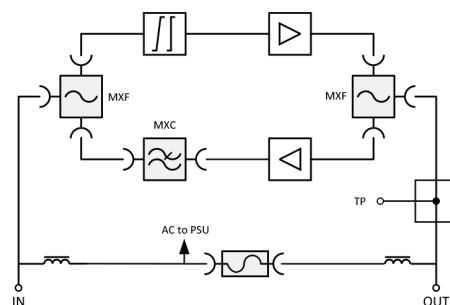
Repeaters

3RE100-10S-AR

The 3RE100-10S-AR is a 5...1218 MHz Amplifier with a fixed 10 dB downstream slope between 85 and 1218MHz, and an active upstream path suited to the new DOCSIS 3.1 distribution lines. Once installed on the field the user can easily change the band split with the use of diplexer and corrector plugins optimized to provide smallest insertion losses in the edges of the bands. Downstream path uses GaAs-FET technology, which guarantees the highest U_{max} , CTB and CSO performance with optimal power need.

3RE100-10S-AR features

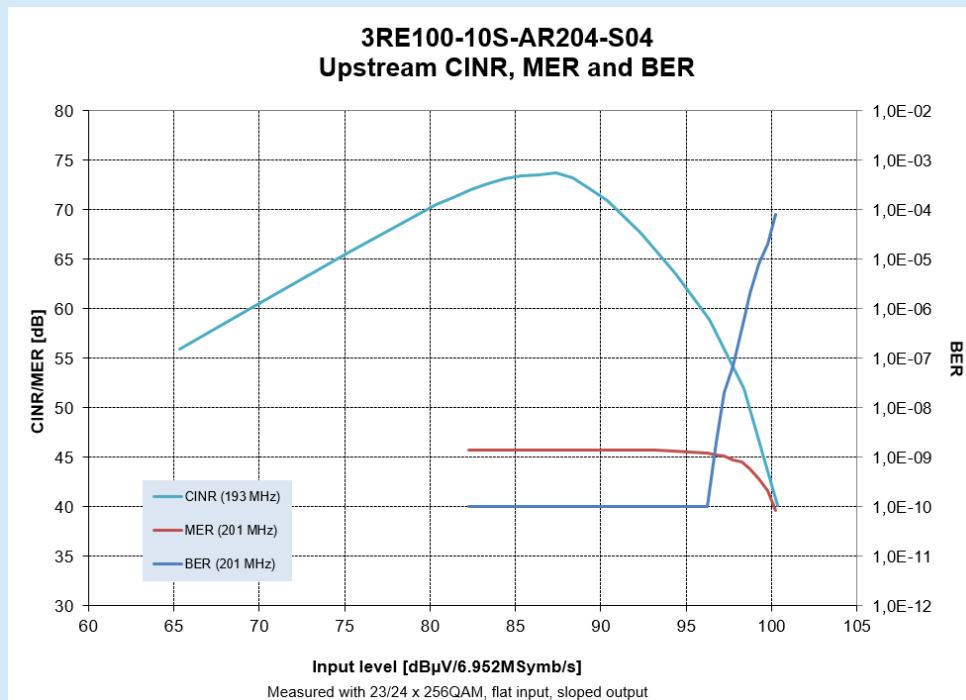
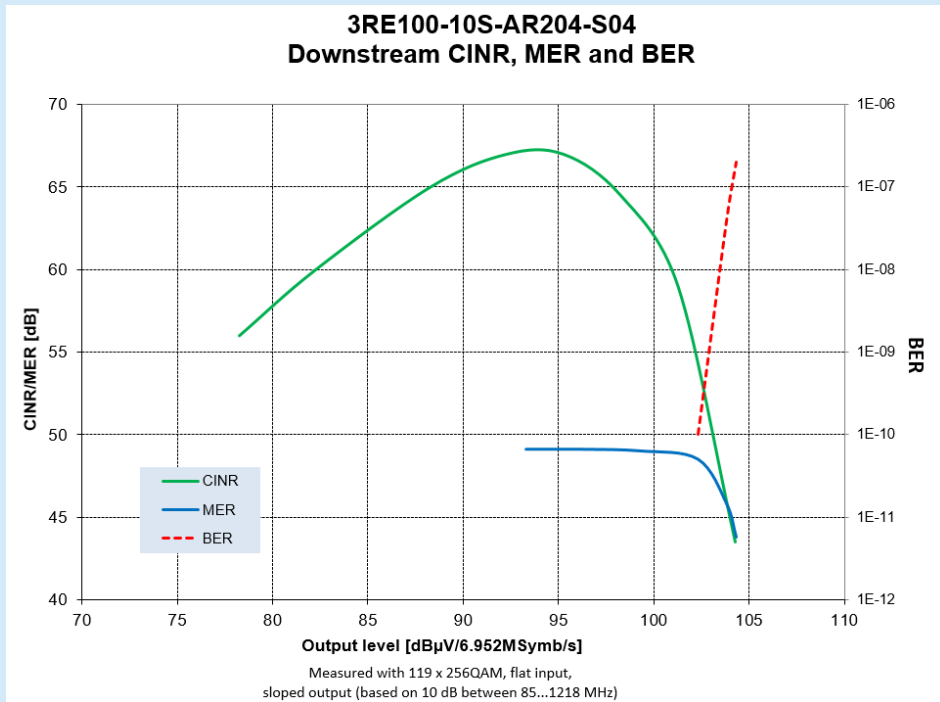
- Plug-in diplex filters
- Fixed downstream slope equalization
- High performance GaAs Push Pull amplifier in downstream
- Efficient surge and ESD protection
- Supports high feed through current
- Connectors on both sides and on top
- Testpoint on lid
- No adjustments needed



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REPEATERS / 3RE100-10S-AR

TECHNICAL SPECIFICATIONS ⁽¹⁾			
Downstream signal path		Upstream signal path	
Frequency range	85/105/258...1218 MHz	Frequency range	5...65/85/204 MHz
Return loss	18 dB ⁽²⁾	Return loss	18 dB ⁽⁶⁾
Gain	12.5 dB ⁽³⁾	Gain	4 dB ⁽⁹⁾
Fixed input equalization	10/7.5 dB ⁽⁴⁾	Flatness	+/- 0.5 dB ⁽¹¹⁾
Flatness	+/- 0.75 dB ⁽⁵⁾	Noise figure	≤ 6 dB ⁽¹⁰⁾
Noise figure (at 1218 MHz)	≤ 7 dB ⁽⁶⁾	Umax (input)	96 dBμV ⁽¹²⁾
Testpoint	20 dB ⁽⁷⁾		
Umax (sloped output)	99 dBμV ⁽¹²⁾		
GENERAL SPECIFICATIONS ⁽¹⁾			
Supply voltage	30...65 VAC	Dimensions	160 x 140 x 80 mm
Maximum feed through current	8.0 A / port	Operating temperature	-15...+55 °C ⁽¹⁴⁾
Power consumption	≤ 5 W at 65 VAC	Class of enclosure	IP65
Hum modulation	70 dB ⁽¹³⁾	Connectors Input/Output	5/8" thread and screwing block
		Testpoint	F female
NOTES			
<p>(1) Typical values. Please contact us for detailed conditions. Unless otherwise mentioned, specifications are based on MXF204/MXC204 (MXX204 Kit).</p> <p>(2) The limiting curve is defined at 40 MHz -1.5 dB/octave, min. 12 dB.</p> <p>(3) This is the nominal gain at 1218 MHz. Minimum value 12.0 dB.</p> <p>(4) Cable equivalent slope measured respectively between 85 and 1218 MHz and, between 258 and 1218 MHz, with a Eupen 7118 cable.</p> <p>(5) Guaranteed value over the full temperature range. Flatness is defined starting at 109 MHz with MXX065 Kit and Eupen 7118 cable with 10 dB slope between 85 and 1218 MHz.</p> <p>(6) Noise Figure is defined with MXX065 Kit. At 109 MHz ≤ 15.5 dB. At 258 MHz ≤ 13.5 dB. Value at starting frequency of the selected diplexer is max. 0.5 dB worse.</p> <p>(7) This bidirectional TP located at output is primary intended for monitoring 3RE100-10S-AR downstream path but can be used as a 20 dB injection point for return path.</p> <p>(8) Valid over the band 10-85 MHz and 16.5 dB for 85-190 MHz with MXX204 Kit.</p> <p>(9) This is the guaranteed minimum gain at 65 / 85 / 204 MHz measured with a respective MXX Kit.</p> <p>(10) Guaranteed value over the band 10 - 204 MHz.</p> <p>(11) Flatness is defined starting at 8 MHz with MXX204 Kit.</p> <p>(12) Typical value at room temperature.</p> <p>(13) At any frequency from 15 to 1218 MHz when the remote current is less than 7 A. Value is for one port.</p> <p>(14) The equipment can work in extreme conditions of -15...+65°C with marginal deviations to the specifications.</p>			
MOUNTING POSSIBILITIES			
<p>1) Fixed mouting blocks on the sides</p> <p>2) Mouting brackets can be used</p> <p>3) Wire mounting</p>			
ORDERING INFORMATION			
3RE100-10S-AR204	Repeater amplifier, 5-1218 MHz, 10dB slope with MXX204 Kit (splitband 204 / 258 MHz)		
Plugins	<p>1) Diplexers: MXF065, MXF085, MXF204</p> <p>2) Flatness corrector:</p> <ul style="list-style-type: none"> - Standard MXC065, MXC085, MXC204, - Sloped MXC204-S4 (upstream 4 dB sloped) - Attenuated MXC085-M4 (4 dB attenuation) <p>3) Kits: MXX065, MXX085, MXX204</p> <ul style="list-style-type: none"> - Includes the respective diplexers and a standard flatness corrector 		
Adapters	5/8"-3.5/12		



TELESTE CORPORATION
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PRODUCT SPECIFICATIONS 3RE100-10S-AR_230926

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