

COMMSCOPE AR3002E

ANALOG FORWARD RECEIVER 1218MHZ

The AR3002E analog receiver supports a forward path passband from 46 to 1218 MHz. Its compact design (single-width module) supports high density and allows the operator to install up to 14 receivers in one 3RU chassis. The output power levels of the AR3002E receiver allow passive RF splitting, saving rack space and increasing reliability.

Alternate network fiber routing is supported via use of two AR3002E receivers and a user-programmable A/B switch that occupies one half-depth slot in the chassis.

- Supports bandwidth up to 1218 MHz
- High RF output with excellent distortion performance (28 dBmV/ch at 0 dBm input, 4% OMI)
- Demultiplexing back plates available for DWDM applications (up to four receivers per cascadable back plate)
- Configurable output attenuator, up to 15 dB
- High packaging density (up to 14 receivers per chassis)
- Front access -20 dB output test point
- Hot plug-in/out
- · Local and remote status monitor capability
- Occupies one full-depth slot

SPECIFICATIONS

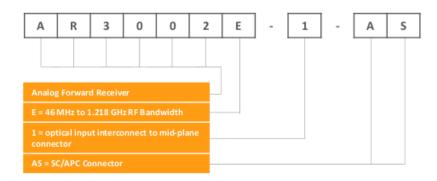
PHYSICAL		ENVIRONMENTAL		
Dimensions	13.0" D x 4.3" H x 1.0" W (3RU) (33 cm x 11 cm x 2.5 cm)	Operating temperature range	-20° to +65°C (-4° to 149°F)	
		Storage temperature range	-40° to +85°C (-40° to 185°F)	
Weight	1.5 lbs (0.68 kg)	Humidity	5% to 95% non-condensing	
RF AND OPTICAL INTER	RFACE	ELECTRICAL		
RF output	F-type (female connector at Back Plate)	Passband	46-1218 MHz	
		Frequency response	±0.75 dB	
		Nominal output level	28 dBmV (@ 0 dBm input, 4% OMI, 1310 nm)	
		Output return loss, min	18 dB	
RF output test point	G-type (male connector at front panel, -20 dB)	Level stability	±0.75 dB	
Optical connector	SC/APC (connector at mid-plane mates to BP-A5 or BP-35D4x)	Level repeatability	±0.5 dB	
POWER REQUIREMENTS		GENERAL		
Input voltage Power consumption	12 VDC 11 W	Hot Plug-In / Out		





OPTICAL		DISTORTIONS		
Wavelength	1110 nm – 1650 nm	AR3002E (nominal output level +28 dBmV/Ch)		
Input return loss	45 dB	77 CW		
	P _{IN} (1310/1550 nm), typ: -6 to +3		Min	Тур
Ontical namer input range	dBm	C/CSO (dB)	72	74
Optical power input range		C/CTB (dB)	82	84
	Max P _{IN} : +6 dBm (damage level)	C/XMOD (dB)	70	76
Responsivity (1310/1550 nm), nominal	0.85 / 0.95 A/W			

ORDERING INFORMATION



Back Plate Options for AR3002E FPR

When ordering an AR3002E FPR the back plate (optical input interconnect to the chassis mid-plane) must be ordered separately. Two different styles of back plate are available in this case, depending on the application. One style provides connection for a single receiver. This single-width back plate may be ordered as:

The second style provides connections for a group of four receivers installed in adjacent chassis slots. These 4-channel demux back plates (for which the DWDM inputs can be cascaded from one back plate to another) may be ordered for various channel groups as specified on the associated data sheets: