

TPX-20x

Triplexer | 600-900 / 1700-2200 / 2300-2600 | Single and Twin Units | Indoor / Outdoor

- Combines 600-900, 1700-2200 and 2300-2600 MHz into a single output
- Usable at BTS or antenna end
- Available as single or twin unit, with various DC/AISG bypass configurations
- Suitable for indoor or outdoor applications
- Pole or wall mounting
- Available with 7/16-DIN or 4.3/10 Connectors



Ordering Options	Single Unit		Twin Unit	
	7/16-DIN Female Connectors	4.3/10 Female Connectors	7/16-DIN Female Connectors	4.3/10 Female Connectors

When ordering replace "x" with correct option for bypass configuration and single or twin unit.

With DC/AISG Auto-Sense	TPX-20A	TPX-20A-43F	TPX-20AA	TPX-20AA-43F
DC/AISG bypass from common to 2300-2700 port	TPX-208	TPX-208-43F	TPX-209	TPX-209-43F
DC/AISG bypass from common to 1700-2200 port	TPX-206	TPX-206-43F	TPX-207	TPX-207-43F
DC/AISG bypass from common to 600-900 port	TPX-204	TPX-204-43F	TPX-205	TPX-205-43F
DC/AISG bypass from common to 1700-2200 & 2300-2600 ports	TPX-2012	TPX-2012-43F	TPX-2013	TPX-2013-43F
DC/AISG bypass from common to 600-900 & 2300-2600 ports	TPX-2010	TPX-2010-43F	TPX-2011	TPX-2011-43F
Full DC/AISG bypass	TPX-202	TPX-202-43F	TPX-203	TPX-203-43F
No DC/AISG bypass	TPX-200	TPX-200-43F	TPX-201	TPX-201-43F

Electrical Characteristics

600-900 Channel (Port 1) - Common

Frequency Band	555-960 MHz	
Insertion Loss (typical)	< 0.2 dB	
Return Loss	> 20 dB	
Rejection	1695-2200 MHz	> 50 dB
	2300-2700 MHz	> 50 dB
Continuous Average Power	250 W	
Peak Power	2000 W	
Intermodulation, 2x43 dBm TX Carrier, IM3	-117 dBm	

1700-2200 Channel (Port 2) - Common

Frequency Band	1695-2200 MHz	
Insertion Loss (typical)	< 0.2 dB	
Return Loss	> 20 dB	
Rejection	555-960 MHz	> 50 dB
	2300-2700 MHz	> 50 dB
Continuous Average Power	250 W	
Peak Power	2000 W	
Intermodulation, 2x43 dBm TX Carrier, IM3	-117 dBm	

2300-2600 Channel (Port 3) - Common

Frequency Band	2300-2700 MHz	
Insertion Loss (typical)	< 0.2 dB	
Return Loss	> 20 dB	
Rejection	555-2200 MHz	> 50 dB
Continuous Average Power	250 W	
Peak Power	2000 W	
Intermodulation, 2x43 dBm TX Carrier, IM3	-117 dBm	

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

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General Electrical		Standard Models	Models with Auto-Sense
Lightning Protection		±5 kA 8/20 μs	±5 kA 8/20 μs
DC Pass Current		3.0 A continuous max	2 A, drop max 2.4V
AISG Pass		Yes	---
AISG RL		---	> 12 dB
AISG Loss		---	< 1 dB
MTBF (minimum)		1 Mh	1 Mh
Input Voltage Power		---	8-31 V max 0.3 W
Safety		EN 60950	---
Environmental			
Temperature Range		-40° to +65° C	-40° to 149° F
Ingress Protection		IP68	
Environmental		ETS 300 019-1-4 Class 4.1E	
Mechanical Characteristics			
Connectors		See Ordering Options	
Dimensions - Single Unit (HxWxD)	Standard Models	160 x 190 x 50.2 mm	6.3 x 7.5 x 2.0 in
	With Auto-Sense	160 x 190 x 61.2 mm	6.3 x 7.5 x 2.4 in
Weight - Single Unit		< 3 kg	< 6.6 lbs
Mounting Options		Description	
Pole / Wall Bracket		Two metal clamps for pole mount included	

Electrical Block Diagrams						
DC/AISG Bypass 2300-2600 Port	DC/AISG Bypass 1700-2200 Port	DC/AISG Bypass 600-900 Port	DC/AISG Bypass 1700-2200 & 2300-2600 Port	DC/AISG Bypass 600-900 & 2300-2600 Port	Full DC/AISG Bypass	No DC/AISG Bypass

Dimensions - Standard Models (TPX-200 shown)	Dimensions - Auto-Sense Models (TPX-20A shown)

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