Triplexer Filter, BK-31D series

GSM-900/GSM-1800/UMTS-2100 Combiner
790 - 960/1710 - 1880/1920 - 2170 MHz
Rev. 3

Preliminary Specification

- Combines bands for co-located BTS or In-building Systems
- High Input Isolation and Power
- Selectable DC/AISG Paths
- Low Passive IM., PIM
- Conforms to AISG and RoHS
- Single or Dual Wall/Mast Mounting, IP-67

Model BK-31D series is a cavity Triplexer which allows combination or separation of signals in the GSM bands 900 & 1800 and UMTS wireless bands. Attention to mechanical design, ensures low loss, low passive intermodulation and high reliability. DC by-pass/AISG configurations to either or both of the GSM-1800 and UMTS are available to order. (04/15)

Model No.	DC/AISG Path Models Common (P1) path to GSM-900 (P2)	GSM-1800 (P3)	UMTS (P4)
BK-31D	DC Path	DC Path	DC Path
BK-31AD	None	None	DC Path
BK-31BD	None	DC Path	None
BK-31CD	None	DC Path	DC Path
BK-31DD	None	None	None

Units also available with Double Wall/Pole Mounting Kit

Return Loss, all ports:		18 dB min.
AISG/DC Continuity*:		2.5A max (to AISG & 3GPP)
Environment:		IP67, -10°C to +60°C
Surge Protection:		10 kA using 8/20µs pulse
Finish:	Connectors:	7-16 (f) long neck triplated
	Housing:	Passivated aluminum/Paint
Weight, single, nom:		9.5 lbs.,4.3 kg with bracket

*applicable to Models with DC/AISG path selected

MHz:	Insertion Loss/Isolation: Common (Port 1) to Pass Band 790 - 960	1710 - 1880	1920 - 2170	Group Delay	Power Rating	Passive Intermod. PIM
GSM-900 (Port 2)	0.1 dB typ. 0.2 max.	65 dB min.	70 dB min.	3 ns typ.	240W avg 1 kW peak	<-145 dBc (2 x 20W)
GSM-1800 (Port 3)	65 dB min	0.2 dB typ. 0.55 dB max.	65 dB min.	25 ns typ.	240W avg 1 kW peak	
UMTS-2100 (Port 4)	65 dB min.	65 dB min.	0.2 dB typ. 0.5 dB max.	25 ns typ.	150W avg 1 kW peak	

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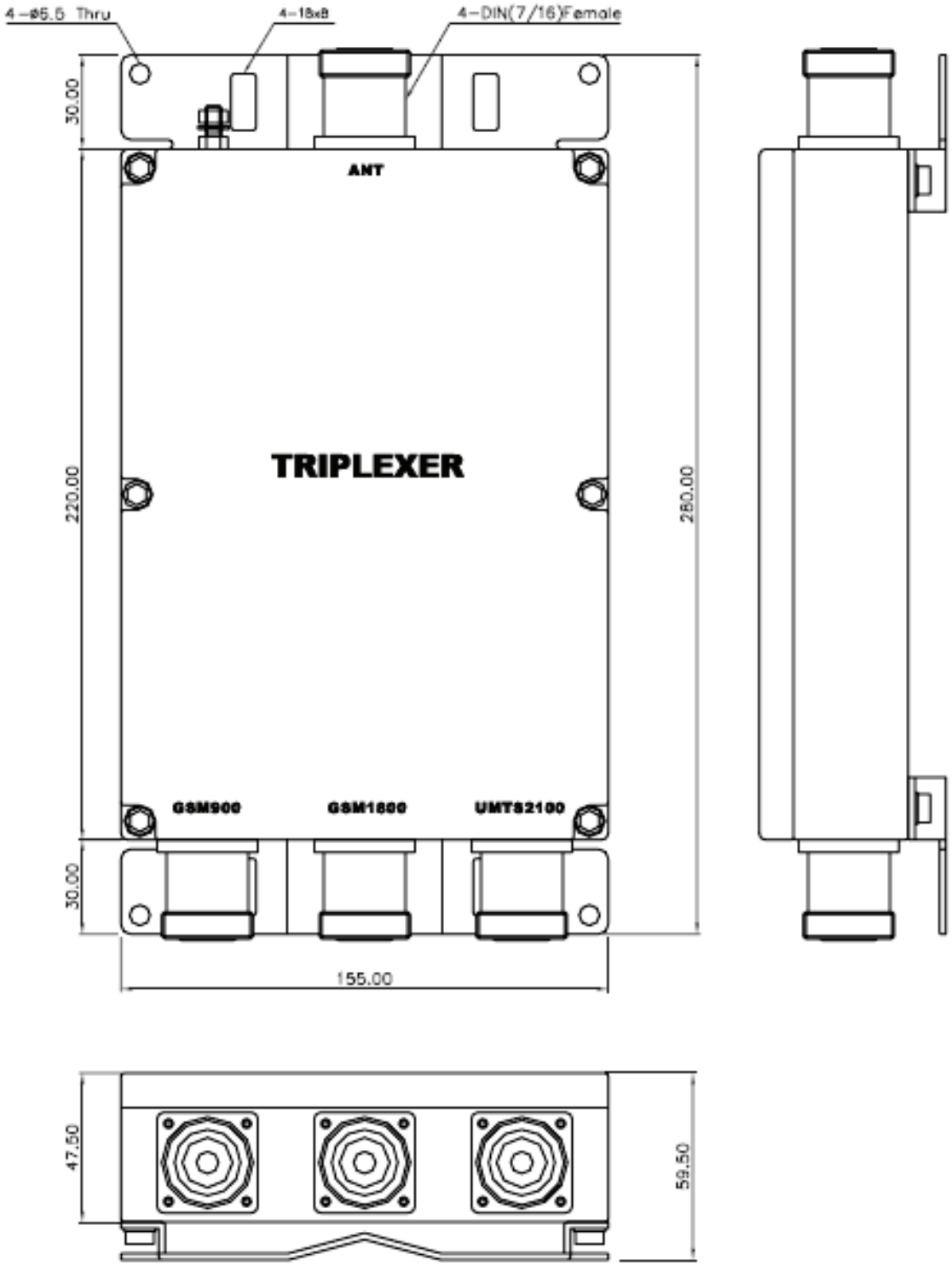
4-ø6.5 Thru
4-18x8
4-DIN(7/16)Female
30.00
ANT
220.00
TRIPLEXER
260.00
GSM900
GSM1800
UMTS2100
30.00
155.00
47.50
59.50