

# Twin Dual Duplex TMA 1800

## with 900 Bypass for Multiband Antennas

ARTICLE	EXT-11302
<b>BYPASS PATH</b>	
<b>FREQUENCY BAND</b>	880 - 960 MHz
<b>INSERTION LOSS</b>	0.15 dB*
<b>CONTINUOUS AVERAGE POWER</b>	200 W max. (53 dBm)
<b>INTERMODULATION, 2x43 dBm TX CARRIER BTS PORT</b>	-110 dBm max. in RX band ANT port
<b>DOWNLINK (TX) PATH</b>	
<b>FREQUENCY BAND</b>	1805 - 1880 MHz
<b>INSERTION LOSS</b>	0.3 dB*
<b>RETURN LOSS</b>	18 dB min. (VSWR < 1.3:1)
<b>CONTINUOUS AVERAGE POWER</b>	200 W (53 dBm)
<b>INTERMODULATION, 2x43 dBm TX CARRIER BTS PORT</b>	-116 dBm max. in RX band, ANT port
<b>UPLINK (RX) PATH</b>	
<b>FREQUENCY BAND</b>	1710 - 1785 MHz
<b>GAIN</b>	12 dB nominal
<b>NOISE FIGURE</b>	1.5 dB*
<b>INSERTION LOSS, BYPASS MODE</b>	2.0 dB*
<b>RETURN LOSS</b>	18 dB min. (VSWR < 1.3:1)
<b>OUTPUT IP3</b>	25 dBm*
<b>POWER SUPPLY AND ALARM</b>	
<b>DC SUPPLY VOLTAGE VIA BTS-RF CABLE</b>	9 - 17 V DC
<b>DC SUPPLY CURRENT, NORMAL MODE</b>	100 mA *
<b>DC SUPPLY CURRENT, ALARM MODE, SINGLE LEVEL</b>	Factory configurable, 160 - 300 mA
<b>ENVIRONMENTAL</b>	
<b>OPERATING TEMPERATURE RANGE</b>	-40 to +65 °C
<b>OPERATION</b>	ETS 300 019-1-4
<b>STORAGE</b>	ETS 300 019-1-1
<b>INGRESS PROTECTION</b>	IP68
<b>MISCELLANEOUS</b>	
<b>EMC</b>	EN 301 489-8
<b>SAFETY STANDARDS</b>	EN 60950
<b>MTBF</b>	750,000 hours min.
<b>MECHANICAL</b>	
<b>DIMENSIONS</b>	
W x H x D	262 x 289 x 69 mm
<b>CONNECTORS</b>	7/16 female, long neck
<b>MOUNTING</b>	Hose clamps, arbitrary orientation
<b>VOLUME</b>	5,2 l
<b>WEIGHT</b>	8.0 kg
<b>COLOUR</b>	NCS 1502-R

\* typical data



### PRODUCT FEATURES

- Available for antennas with diplexer or for separate 1800 and 900 MHz antennas
- 1800 MHz with 900 MHz band pass
- Expand 900 installation with 1800 and use existing feeder cables