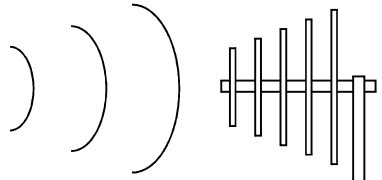


# Application Example For TX-FMBR1

FIELD STRENGTH MINIMUM 54dBuV/m  
REF: ITU-R BS412-9



USE OF DIRECTIONAL  
ANTENNA WILL  
IMPROVE ISOLATION  
FROM TUNNEL RF  
AND REDUCE NOISE

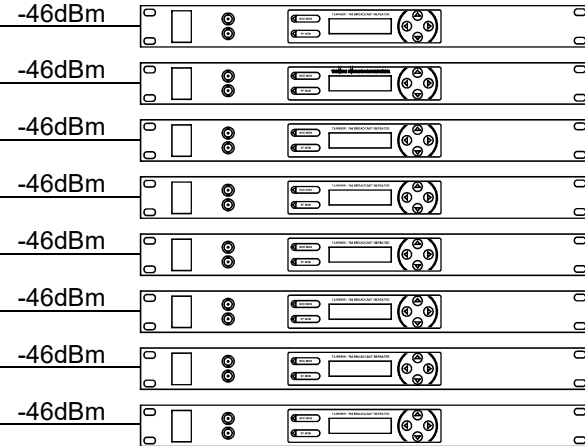
A 6-ELEMENT YAGI  
ANTENNA WILL  
PROVIDE -55dBm  
AT MINIMUM FIELD  
STRENGTH

NOTE: EXTRA RF  
DISTRIBUTION  
AMPLIFIERS OR  
ACTIVE SPLITTERS  
CAN BE DEPLOYED  
TO IMPROVE  
GAIN, FEED MORE  
RECEIVER UNITS  
OR TO MITIGATE  
CABLE LOSS

20dB  
GAIN  
MAST  
HEAD  
AMP

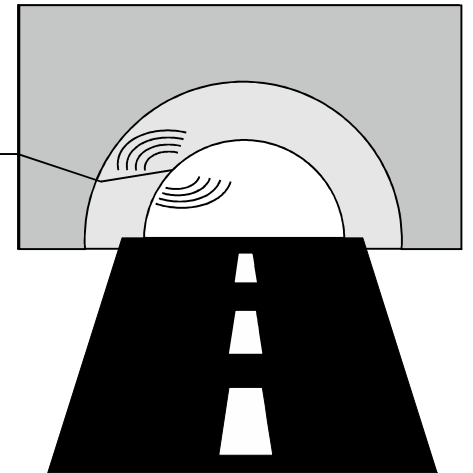
-35dBm

8-WAY  
TAP



COMB I N E R

DIRECT TO LEAKY FEEDER  
ANTENNA SYSTEM, OR RF  
OVER FIBRE, OR HIGH  
POWER LINEAR AMPLIFIER



NOTE: COMBINING OUTPUTS OF TRANSMITTERS  
RADIATING DIFFERENT FREQUENCIES INTO A  
SINGLE ANTENNA SYSTEM MAY CAUSE  
INTERMODULATION PRODUCTS. IPs NOT ONLY  
DEGRADE SYSTEM PERFORMANCE, BUT MAY  
ALSO ADVERSELY AFFECT COMPLIANCE WITH  
BROADCAST REGULATIONS.

SYSTEM DESIGN, INSTALLATION AND COMMISSIONING MUST ALWAYS BE PERFORMED BY A COMPETENT RF ENGINEER

TX Dicast makes no warranty of any kind with respect to this information. TX Dicast specifically disclaims the implied warranty of merchantability and fitness for a particular purpose.

TX Dicast shall not be liable for any direct, indirect, incidental, consequential or other damage or loss alleged in connection with the furnishing or use of this information.