



### I TECHNICAL CHARACTERISTICS

# OVERALL CHARACTERISTICS

48-80 MHz	(DTS/1B, DRS/1B)
80-108 MHz	(DTS/30, DRS/FM)
160-300 MHz	(DTS/3B, DRS/3B)
300-512 MHz	(DTS/4B, DRS/4B)
512-830 MHz	(DTS/5B, DRS/5B)
830-1020 MHz	(DTS/G, DRS/G)
1.1-2.7 GHz	(DTS/2G, DRS/2G)
Frequency response	± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz
Stereo separation	50 dB or better from 30 Hz to 15 kHz
Signal to Noise Ratio (mono)	> 70 dB with 75 kHz dev. and 400 Hz mod.
Signal to Noise Ratio (stereo)	> 66 dB with 75 kHz dev. de-emphasized
THD (mono)	< 0.1 %
THD (stereo)	< 0.2 %



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## TRANSMITTERS CHARACTERISTICS

Power outputs (continuously variable from 0 t	o nominal power):
DTS/1B	15 W
DTS/30	30 W
DTS/3B	15 W
DTS/4B	15 W
DTS/5B	5 W
DTS/G	8 W
DTS/2G	5 W (25 W on request)
Output impedance	50 Ω
Output connector	N/female
Modulation	FM, 75 kHz peak deviation, 180k F3E mono, 256k F3E stereo
Audio/MPX Input level	$-4 \div +13$ dBm @ $\pm$ 75kHz deviation
Audio Input connector	XLR female
Auxiliary Channel input level	-13 ÷ +4 dBm @ ±7.5 kHz dev.
MPX, Auxiliary and monitor connectors	BNC
MPX/mono Output level	-2 ÷ +12 dBm, 0.5 dB/step
Transmitter MPX monitor output level	$0 \div +7dB$ , adjustable
Pre-emphasis	50 / 75 μs
Spurious and harmonic emissions	below FCC and CCIR requirements
Syncronous AM S/N Ratio	$<$ -60 dBc with $\Delta$ F ±75 kHz
Asyncronous AM S/N Ratio	<-70 dBc
Composite frequency response	± 0.15 dB from 15 Hz to 130 KHz
Stereo separation	> 55 dB or better from 30 Hz to 15 kHz
Capability	1 mono/stereo program, up to 3 SCA (optional)
Metering	output forward and reflected power, peak modulation, diagnostic functions
Operating temperature	-10°C to +45°C
AC input voltage	120 or 220/240 VAC, 50/60 Hz ±15%
Dimensions	depth 483 mm (19") x 2 U (standard rack unit)
Net weight	9.5 kg

#### RECEIVERS CHARACTERISTICS

z, ± 0.5 dB from 53 kHz to 100 kHz
< - 90 dBm
< -68 dBm
> +10 dB typ @ δF=300kHz
$> +35$ dB typ @ $\delta$ F=500kHz
$> +45$ dB typ @ $\delta$ F=1.0 MHz
RF input level, peak modulation
N/female, 50 ohm
> 68 dB
adjustable from -100 dBm
composite, monoaural, IF 10.7 MHz
-10°C to +45°C
0 or 220/240 VAC, 50/60 Hz ±15%
mm (19") x 2 U (standard rack unit)
9 kg
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OPTIONS ON REQUEST \[ \overline{NDC}

VDC 12 VDC or 24 VDC / Battery operation

Features and specifications subject to change without notice.



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