

MAIN FEATURES:

- 100% Solid-State and Digital Ready
- AGC and ALC controls.
- Advanced LDMOS Technology for best linearity (UHF Version)
- Modular Construction
- Forced-air cooling
- AGC and ALC Controls
- 3-slope linearity pre-correction
- Programming of local oscillator from front panel
- Multifunction digital display
- Soft-start circuit
- Low power consumption
- Standby circuit in case of loss of input signal
- SAW vestigial filter
- Sync restore
- Group delay pre-correction
- Automatic white level and sync limiter
- Multistandard modulator
- ICPM and differential phase precorrector option available
- Available in stereo/dual audio version



SCT-132UB
 1 kW UHF TV Transmitter



SCT-103UB
 8 kW UHF TV Transmitter

MODEL-SPECIFIC DATA					
Model * SCT, SCR	Output Band	Output Connector	Dimensions 1U = 1.75"H	Power Output	
				Nominal	Maximum
020F	VHF-L	N	3U	2 W	2.5 W
100F	VHF-L	N	3U	10 W	12 W
200F	VHF-L	N	3U	20 W	24 W
101FB	VHF-L	N	4U	100 W	120 W
201FB	VHF-L	N	7U	250 W	300 W
501FB	VHF-L	7/16"	8 U	500 W	600 W
102FB	VHF-L	7/8" EIA	24 U	1 kW	1.2 kW
202FB	VHF-L	7/8" EIA	36 U	2 kW	2.4 kW
502FB	VHF-L	1 5/8" EIA	2 X 44U	4 kW	4.8 kW
103FB	VHF-L	1 5/8" EIA	3 X 44U	8 kW	9.5 kW
203FB	VHF-L	3" EIA	5 X 36U	16 kW	19 kW
020T	VHF-H	N	3U	2 W	2.5 W
100T	VHF-H	N	3U	10 W	12 W
200T	VHF-H	N	3U	20 W	24 W
101TB	VHF-H	N	4U	100 W	120 W
201TB	VHF-H	N	7U	250 W	300 W
501TB	VHF-H	7/16"	8 U	500 W	600 W
132TB	VHF-H	7/8" EIA	15 U	1 kW	1.2 kW
252TB	VHF-H	7/8" EIA	30 U	2 kW	2.4 kW
512TB	VHF-H	1 5/8" EIA	2 X 36U	4 kW	4.8 kW
103TB	VHF-H	1 5/8" EIA	3 X 38U	8 kW	9.5 kW
203TB	VHF-H	3" EIA	5 X 36U	16 kW	19 kW
020U	UHF	N	3U	2 W	2.5 W
100U	UHF	N	3U	10 W	12 W
200U	UHF	N	3U	20 W	24 W
101UB	UHF	N	4U	100 W	120 W
201UB	UHF	N	7U	250 W	300 W
501UB	UHF	7/16"	8 U	500 W	600 W
132UB	UHF	7/8" EIA	15 U	1 kW	1.2 kW
252UB	UHF	7/8" EIA	30 U	2 kW	2.4 kW
512UB	UHF	1 5/8" EIA	44U	4 kW	4.8 kW
103UB	UHF	1 5/8" EIA	2 X 44U	8 kW	9.5 kW
203UB	UHF	3" EIA	5 X 36U	16 kW	19 kW

* SCT Series = Transmitters
 SCR Series = Translators
 Dual exciter and custom configurations are available upon request

TECHNICAL CHARACTERISTICS

TRANSMITTER VERSION

VIDEO SPECIFICATIONS

Input impedance	75 Ohm
Input level	1 V p.p. ± 3 dB
White / Sync level limiter	95%
2T K factor	< 1.5%
Amplitude / frequency response	± 0.5 dB (across the visual band)
Differential gain	< 5%
Differential phase	< 3°
Group delay	± 35 ns (across the visual band)
Sync pulse compression	< 3%
S/N ratio (weighted)	> 60 dB
Pre-emphasis	50 μ s or 75 μ s or flat
ICPM	< 3°
Luminance non linearity	< 4%
Field time bar tilt	< 2%
Line time bar tilt	< 2%

AUDIO SPECIFICATIONS

Input impedance (balanced)	600 Ohm or > 5 kOhm, selectable
Input level	0 dBm ± 6 dB
Frequency response (30 Hz to 15 kHz)	± 0.4 dB
T.H.D. (30 Hz to 15 kHz)	< 0.4%
S/N ratio (un-weighted)	> 60 dB
Stereo / Dual sound option	Available

TRANSLATOR VERSION

Input frequency bands	VHF I, VHF III, UHF
Input impedance	50 Ohm
Input matching	> 26 dB
Input level amplitude	-30 to -75 dBm
A.G.C. + A.L.C. dynamic	> 45 dB
Noise figure	< 8 dB

GENERAL

Available standards	B, D, G, H, I, K, M, N
Cooling	Forced air cooling
Operating temperature	-10°C to +45°C
Maximum relative humidity	90%, non condensing
Mains power supply	208-240 VAC single phase
External reference frequency input	5 MHz or 10 MHz
Protections	Overpower SWR Overvoltage Overcurrent Overtemperature
Output impedance	50 Ohm
PA Class of Operation	AB
Frequency stability	1 ppm (optional 1.10^{-10} /day, 3.10^{-8} /year)
I.M.D. at rated output power	better than -57 dBc (-60 dBc typical)
Harmonics	- 60 dB or better
Spurious emissions	- 60 dB or better
Remote Control Interfaces	Metering of operational parameter, on/off commands, alarms status indicators

Specifications and characteristics are subject to change without notice.



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