



SDC 100 Stereo Digital Coder

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SDC 100

DIGITAL CODER

SDC 100 Features

- 1 High performances Stereo Coder with Stereo Separation > 65 dB and S/N ratio > 80 dB
- 2 High sensibility Vu-Meter (20 leds) allows an accurate level measure of audio input levels on SCA/RDS subcarriers
- 3 Balanced audio inputs with high level of Common Mode Rejection Ratio (CMRR > 70 dB, from 20 Hz to 15 kHz), filtered from the RF interference and protected against Fast Transient Events
- 4 Ground subdivision system (Audio and Chassis) optimized to avoid Ground-Loops phenomena
- 5 Two buffered MPX outputs, each with independent level, allow to keep an optimum Stereo Separation with loads as low as 50 Ohm
- 6 Switching Power Supply in order to provide the current for the 50 Ohms Loads
- 7 Clipper Circuit enabled with jumper

SDC 100 Caratteristiche

- 1 Codificatore stereofonico di elevate prestazioni, separazione stereo maggiore di 65 dB e rapporto S/N maggiore di 80 dB
- 2 Vu-Meter di alta sensibilità (20 led ognuno), che consente una accurata misura dei livelli audio d'ingresso e delle sottoportanti SCA ed RDS
- 3 Ingressi audio bilanciati ad alto livello di reiezione ai disturbi di modo comune (CMRR maggiore di 70 dB da 20 Hz a 15 kHz), filtrati contro le interferenze di Radio Frequenza e protetti contro i disturbi veloci di modo comune e differenziali
- 4 Suddivisione delle masse (audio e telaio) ottimizzata per prevenire fenomeni di loops di massa
- 5 Due uscite MPX ognuna con controllo di livello e buffer indipendenti, possono pilotare carichi fino a 50 Ohm mantenendo la separazione stereo ad ottimi livelli
- 6 Alimentatore switching capace di erogare la corrente necessaria a pilotare 2 carichi di 50 Ohm
- 7 Circuito Clipper inseribile tramite jumper

SDC 100 Caractéristiques

- 1 Codificateur stéréo de haute performance, séparation stéréo plus grande que 65 dB et rapport signal-bruit plus grande que 80 dB
- 2 Système de visualisation du niveau d'entrée, de type "VU-METER" avec haute sensibilité (20 led). Cette sensibilité consente de obtenir une bonne mesure du niveau d'entrée et une bonne mesure des niveaux SCA et RDS
- 3 Entrées audio balancées avec haut niveau de CMRR (plus grande que 70 dB de 20 Hz à 15 kHz), filtrées et protégées contre les décharges électrostatiques
- 4 Système de séparation des masses réalisé pour éviter problèmes de loop de masse
- 5 Deux sorties MPX séparées, avec "buffer" et contrôle de niveau. Cette astuce consentent de maintenir une bonne séparation entre les entrées audio, ainsi que une impedance de 50 Ohm
- 6 Systeme d'alimentation avec haute capacité qui permet de distribuer une haute courant nécessaire pour le charge de 50 Ohm
- 7 Circuit "Clipper" insérible au moyen de "jumper"

TECHNICAL SPECIFICATIONS **SDC 100**

Audio input (L & R)

• Input level:	adjustable from -12 to +15 dBu
• Input sensitivity:	194 mVrms (-12 dBm)
• Input impedance:	50 Ohm / 600 Ohm / 10 KOhm (internally selectable)
• Input connector:	XLR-type, female
• Frequency response:	< ± 0.3 dB from 20 Hz to 15 KHz
• CMRR:	> 60 dB
• 19 KHz suppression:	> -50 dB
• 38 KHz suppression:	> -80 dB
• Pre-emphasis:	OFF / 25 μ S / 50 μ S / 75 μ S (internally selectable)

SCA input

• Input level:	adjustable from 0 to +15 dBu for -20 dB output
• Input impedance:	> 10 KOhm (unbalanced)
• Input connector:	BNC- type
• Frequency response:	< ± 0.2 dB from 50 KHz to 100 KHz

RDS input

• Input level:	adjustable from 0 to +15 dBu for -20 dB output
• Input impedance:	> 10 KOhm
• Input connector:	BNC- type
• Frequency response:	< ± 0.2 dB from 50 KHz to 100 KHz

Stereo generator

• Pilot tone frequency:	19 KHz ± 1 Hz
• Pilot tone level:	-20 dB (internally adjustable)
• Pilot tone output connector:	BNC- type, 1Vpp
• Output 1 impedance (multiplex):	50 Ohm (unbalanced)
• Output 1 level (multiplex):	adjustable from -10 to +10 dBu
• Output 2 impedance (multiplex):	50 Ohm (unbalanced)
• Output 2 level (multiplex):	adjustable from -10 to +10 dBu
• Separation (50 Ohm output load):	45 dB from 30 Hz to 400 Hz 55 dB from 400 Hz to 5 KHz 65 dB from 5 KHz to 10 KHz 60 dB from 10 KHz to 15 KHz
• Separation (600 Ohm output load):	50 dB from 30 Hz to 400 Hz 60 dB from 400 Hz to 10 KHz 57 dB from 10 KHz to 15 KHz
• Separation (10 KOhm output load):	70 dB from 30 Hz to 5 KHz 60 dB from 5 KHz to 10 KHz 56 dB from 10 KHz to 15 KHz
• Subcarrier suppression (38 KHz):	> 70 dB
• THD (1 KHz, output = +12 dBm):	< 0.03%
• Signal/Noise ratio:	-80 dB (DIN AUDIO), decoded, de-emphasized left and right RMS
• AC power source:	100-120-220-240 Vac $\pm 10\%$ 50-60 Hz
• DC power source:	24 V, 500 mA max
• Rack dimensions:	483.0 mm (19") W 44.00 mm (1.7") H 242.0 mm (9.5") D
• Operating temperature:	-10°C + 50°C



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