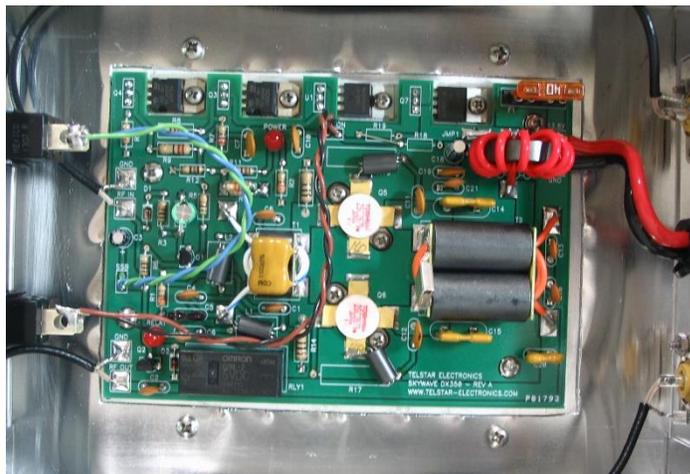


SkyWave DX350



www.telstar-electronics.com

Mobile RF Linear Amplifier



Features

- +13.8V_{DC} Operation
- All Mode (AM, FM, SSB, CW)
- 10-Meter Amateur Band Coverage
- Toshiba 2SC2879 Push-Pull Configuration with Matched Transistors
- High Output Power / Low Harmonic Content
- Temperature Compensating Class-AB Bias
- Carrier Operated or Multiplexed¹ Transmit / Receive Switching
- Reverse Power Polarity Protected
- Thermal Shutdown
- Fuse Protected
- Selectable SSB Delay
- Low Stand-By Power Consumption
- Remote Operation Ready
- Large Extruded Heat Sink Provides Exceptional Cooling
- Premium Components & Printed Circuit Board

¹ Contact Telstar Electronics for details on using this feature

The SkyWave DX350 has an implied warranty to be free of defects in materials and workmanship for a period of 90 days from purchase. This warranty covers workmanship, parts (excluding power transistors), and labor. If it's determined that the amplifier has been used for a purpose other than intended, abused, or altered in any way, the warranty shall be void. Specifications subject to change without notice.

SkyWave DX350



Mobile RF Linear Amplifier

Electrical

| PARAMETER | VALUE | NOTES / CONDITIONS |
|----------------------------|-----------------------------------|--|
| Operating Modes | - | AM, FM, SSB, CW |
| Voltage Requirements | +13.8V _{DC} | Typical |
| | +15V _{DC} | Maximum |
| DC Current | 25A | Typical @ 13.8V _{DC} , 350W-PEP |
| RF Input Power | 50mW (AM, FM, CW) | Minimum |
| | 10W (AM, FM, CW) 25W PEP (SSB) | Maximum |
| RF Power Output | 200W (AM/FM/CW) 350W PEP (SSB) | Minimum @1dB Compression ² |
| 2 nd Harmonic | -26dBc ³ | 100W CW@28MHz (Typical) |
| 3 rd Harmonic | -23dBc ⁴ | 100W CW@28MHz (Typical) |
| Input/Output Impedance | 50-Ohms | - |
| Input SWR ⁵ | 1.3:1 | Typical |
| Power Gain | 14.5dB @ 28MHz | Typical |
| Bandwidth | 26-30MHz | 0.5dB Gain Flatness |
| Class-AB Bias Current | 200mA ± 100mA | 0°~80°C (Heat Sink Temperature) |
| Fuse | 40A | ATO - Automotive Type |
| SSB Relay Delay | 1 Second | Typical |
| Stand-By Power | 1.75W | Typical |
| Reverse Voltage Protection | Continuous | No Damage to Amplifier or Fuse |
| Input / Output Connectors | SO-239 | Coaxial |
| Printed Circuit Board | FR4 Material | Solder Mask & Silkscreen |
| Power Cord | 12AWG Stranded | w/Strain Relief |

Mechanical

| PARAMETER | VALUE | NOTES / CONDITIONS |
|------------------|--------------|--------------------|
| Chassis Material | Aluminum | 0.040" Thickness |
| Dimensions | 8" x 6" x 4" | L x W x H |
| Weight | 3.0 | Lbs. |

² Driving amplifier into compression region can negatively impact harmonic performance.

³ Decibels below carrier.

⁴ Decibels below carrier.

⁵ Standing Wave Ratio.