

VHF SIMPLEX DIGITAL SIGNAL BOOSTERS

136 - 174 MHz

DH124S

Product Features

- Channel Selective, software programmable
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Uplink squelch, per channel
- User adjustable gain control, UL and DL independent
- Automatic Gain Control, per channel
- Weatherproof enclosure, IP67/NEMA4X
- NFPA Compliant



Simplex Digital Signal Boosters

Applications

- Indoor coverage: tunnels, buildings, stadiums, subways



Specification

Value

Type	Simplex Digital Signal Boosters	
Frequency range	136 - 174 MHz	
Passband BW. min	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz and 15 KHz BW)	
Number of Passband	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz and 15KHz BW) 1 to 12	
Gain, maximum	80 dB	
Passband ripple	+/- 2.0 dB	
Gain, manual control	28dB range, digitally controlled in 1dB steps	
Antenna isolation	Max Gain + 10 dB	
Composite output power, DL	+24 dBm	
Composite output power, UL	+24 dBm	
IM and spurious generation	< -13 dBm	
Noise figure	7.0 dB max at maximum gain	
Impedance	50 Ω	
Group delay	Channel Selective 90KHz, 14uS Channel Selective 45KHz, 23uS Channel Selective 30KHz, 32uS	Channel Selective 20KHz, 45uS Channel Selective 15KHz, 55uS
Maximum input power, no damage	0 dBm (UL) -2 dBm (DL)	
Connectors	N(f) as standard	
VSWR at operating frequencies	1.5:1 max	
Squelch function	Yes, user selectable	
Self diagnostic platform	Microprocessor based	
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, temperature, AGC, RF overload.	
Local management and supervising	Local access via USB and Ethernet (web browser)	
Remote management and supervising	Remote access via Ethernet. Wireless MODEM (SNMP) as optional (RC-G)	
RoHS compliance	Yes	
AC Supply	110/220 VAC, 50/60 Hz	
Power Consumption	80 W	
DC Supply	Optional, see table	
Housing	IP67 / NEMA4X	

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Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Dimensions	20.2 x 18.2 x 9 inches • 514 x 462 x 230 mm
Weight	55 lbs - 25 Kgs
Mounting	Wall mounting
MTBF	>50.000 hours.

MODEL	NFPA	RC-G	110-220 VAC	+24VDC	-48VDC	136 - 155	155 - 174
DH124S-004	X		X			X	
DH124S-005	X			X		X	
DH124S-006	X				X	X	
DH124S-010	X	X	X			X	
DH124S-011	X	X		X		X	
DH124S-012	X	X			X	X	
DH124S-016	X		X				X
DH124S-017	X			X			X
DH124S-018	X				X		X
DH124S-022	X	X	X				X
DH124S-023	X	X		X			X
DH124S-024	X	X			X		X

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