Military Communications - Ruggedized Bandpass Tunable Filters

Description:

K&L Microwave autotuned bandpass filters are high "Q" devices covering the VHF frequency band 100 to 164 MHz. When configured with a VHF Transceiver, these devices provide filtering solutions for field applications where co-location interference must be eliminated. Each filter is tuned by a remote BCD interface output from the transceiver. When a new frequency is entered on the radio, the filter tunes to the same frequency automatically. An internal microprocessor is used for all control functions of the filter, reducing the number of electronic and electromechanical components in the unit while maintaining high accuracy.



K&L Model: D3HBTM-100/164-1-N/N-ERI

• Specifications:

Tuning Range: 3 dB Bandwidth: Filter shape factor 30 dB BW / 3 dB BW: VSWR: Insertion loss:

RF Impedance: RF Power Handling:

RF Connectors: Data Connector: 100 MHz-164 MHz >800 KHz

4.5:1 (3.5:1 Nominal) 1.5:1 maximum 2.7 dB maximum 2.4 dB typical 50 ohms 40 watts average 160 watts peak 'N' Type 37 Pin 'D' Control Interface:

Operating Temperature: Storage Temperature: Tuning Time: (Entire Range) Tuning Accuracy:

PIN NO

1

18

19 35

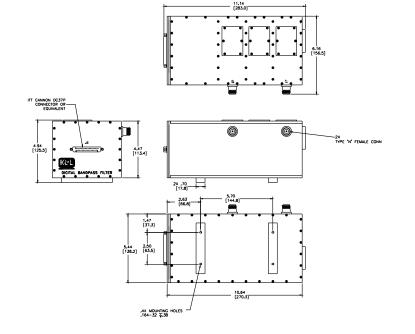
36 37

Supply Power:

Humidity:

EMC intent:

'BCD' 16 line parallel std.
GPIB, RS-232, RS-422 opt.
-20 to 45°C
-40 to 70°C
7 seconds typ.
10 seconds max.
25 kHz typical
50 kHz maximum
24 VDC to 33 VDC std.
12 VDC, 110 VAC opt.
95% Storage
85% Operation
Mil Std 461



С С J3 PIN ASSIGNMENTS FUNCTION CODED REPRESENTATION OF 10 KHZ/1 KHZ DIGITS LSB MSB_) LSB -0=0 KHZ, 1=25 KHZ, 2=50 KHZ, 3=75 KHZ BCD REPRESENTATION OF 100 KHZ DIGIT (0-9) MSB_ LSB BCD REPRESENTATION OF 1 MHZ DIGIT (0 - 9)MSB LSB BCD REPRESENTATION OF 10 MHZ DIGIT (0 - 9)MSB_ BCD REPRESENTATION OF 100 MHZ DIGITS LSB. MSB (1-3) TUNE INPUT SPARE GROUND JNREGULATED 28V

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