Wireless Band Triplexer, BK-41D/BK-41DW
(700+850)/(PCS+AWS)/(WCS+2600) Bands
Outdoor, 7-16 DIN connectors
Rev. A

$ Saver Product Line

♦ Integrates (700+850)/(PCS+AWS)/(WCS+2600) Bands for multiband co-located sites
♦ Guaranteed Low PIM, RoHS compliant
♦ 50 dB Input Isolation
♦ 100 W/port Avg. Power
♦ Low RF Insertion Loss & Ripple
♦ For Outdoor Applications
♦ Single or Double Unit Mounting
♦ DC Pass for AISG applications

Microlab BK-41D is a Triplexer which allows combination and separation of the signals in multiple wireless bands. LTE upper and lower 700 MHz bands combined with cellular 824-894 MHz, PCS 1850-2000 MHz combined with AWS bands, 1710-1755 & 2110-2155 MHz, and WCS 2300 MHz with bands up to 2600 MHz.

The Triplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 100W per input.

Double unit mounting configuration is available with Microlab Model BK-41DW. Units can be special ordered for specific port DC pass options. (10/14)

Port 1: 698 - 960 MHz
Port 2: 1710 - 2170 MHz
Port 3: 2300 - 2690 MHz
Insertion Loss: 0.25 dB typ., 0.4 dB max
Input Isolation: >50 dB, all ports
Input Return Loss: 18 dB, all ports
Power Rating: 100W/input avg., 2 kW pk
Impedance: 50Ω nominal
PIM (Intermod): <-153 dBc, -156 dBc typical (+43dBm x2) measured in Rx band
DC Pass: All ports, 33V, 2A continuous
Environment: -40°C to +65°C, IP67
Finish: Connectors: 7-16 DIN(f) Triplate
Housing: Painted
Mounting: Stainless Steel bracket included
Weight: BK-41D: 8.4 lbs (3.8 kg) max
BK-41DW: 15.8 lbs (7.2 kg) max.
Wireless Band Triplexer, BK-41D/BK-41DW

BK-41D Outline

BK-41DW Outline