



# DUPLEXERS

## 66-88 MHz

IN RANGES OF:  
66 - 77 MHz  
75 - 88 MHz



19" RACK MOUNTS  
MODEL NOS.  
27-26-01A 27-27-01A  
27-26-02A 27-27-02A

(CROSS MOUNT CAVITIES ARE ALL ON ONE SIDE OF 19" PANEL)  
CROSS MOUNT  
MODEL NOS.  
27-26-01C 27-27-01C  
27-26-02C 27-27-02C

### GENERAL DESCRIPTION

Models 27-26-01, 27-26-02, 27-27-01 and 27-27-02 are compact, high-performance base station notch duplexers for the 66-77 and 75-88 MHz frequency ranges. They are rated for continuous-duty operation with transmitters of 125 watts or less output power, in ambient temperatures from -40° to +60° C.

These models fulfill the demand for small-sized midband duplexers for specialized commercial applications in the U.S. and general communications applications in other countries.

### SMALL SIZE, LIGHT WEIGHT

These duplexers utilize six notch-type helical resonator filters which measure only 2" x 2" x 7.5" (5.1 x 5.1 x 19.1 cm) and yet provide excellent electrical performance and temperature stability.

The six helical resonators are mounted on a 19" (48.3 cm) wide rack panel, in two compact configurations for installations where either vertical space or depth behind the panel are critical. Both can be mounted on the front or rear mounting rails of 19" rack cabinets, in a maximum of 3.625" (9.2 cm) or 7" (17.8 cm) vertical space.

Their light shipping weight of 12 lbs. (5.45 Kg) makes

them extremely economical to ship anywhere in the world.

### HIGH PERFORMANCE

Models 27-26-01 and 27-27-01 provide more than 100 dB T-R isolation at frequency separations of 3 MHz or more, at a typical insertion loss of 0.6 to 0.9 dB. Models 27-26-02 and 27-27-02 provide the same performance at spacings of only 2.5 MHz.

### EASY FIELD TUNING

Because of their independently tunable pass and notch frequencies, these duplexers are easy to tune in the field over a broad frequency range. They are therefore attractive as "stock" duplexers for manufacturers or installers.

### APPLICATION

Models 27-26-01, 27-27-01, 27-26-02 and 27-27-02 are ideal for use with low-to-medium power repeaters which do not require the large broadband isolation provided by larger, more costly pseudo-bandpass duplexers built with quarter-wave, 6 5/8" diameter cavities. In such applications, they result in compact, economical installations, without compromising duplex isolation.

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DUPLEXERS • CAVITY FILTERS • MULTICOUPLER SYSTEMS • SIGNAL BOOSTER SYSTEMS • RF SYSTEM PRODUCTS

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C1054G91