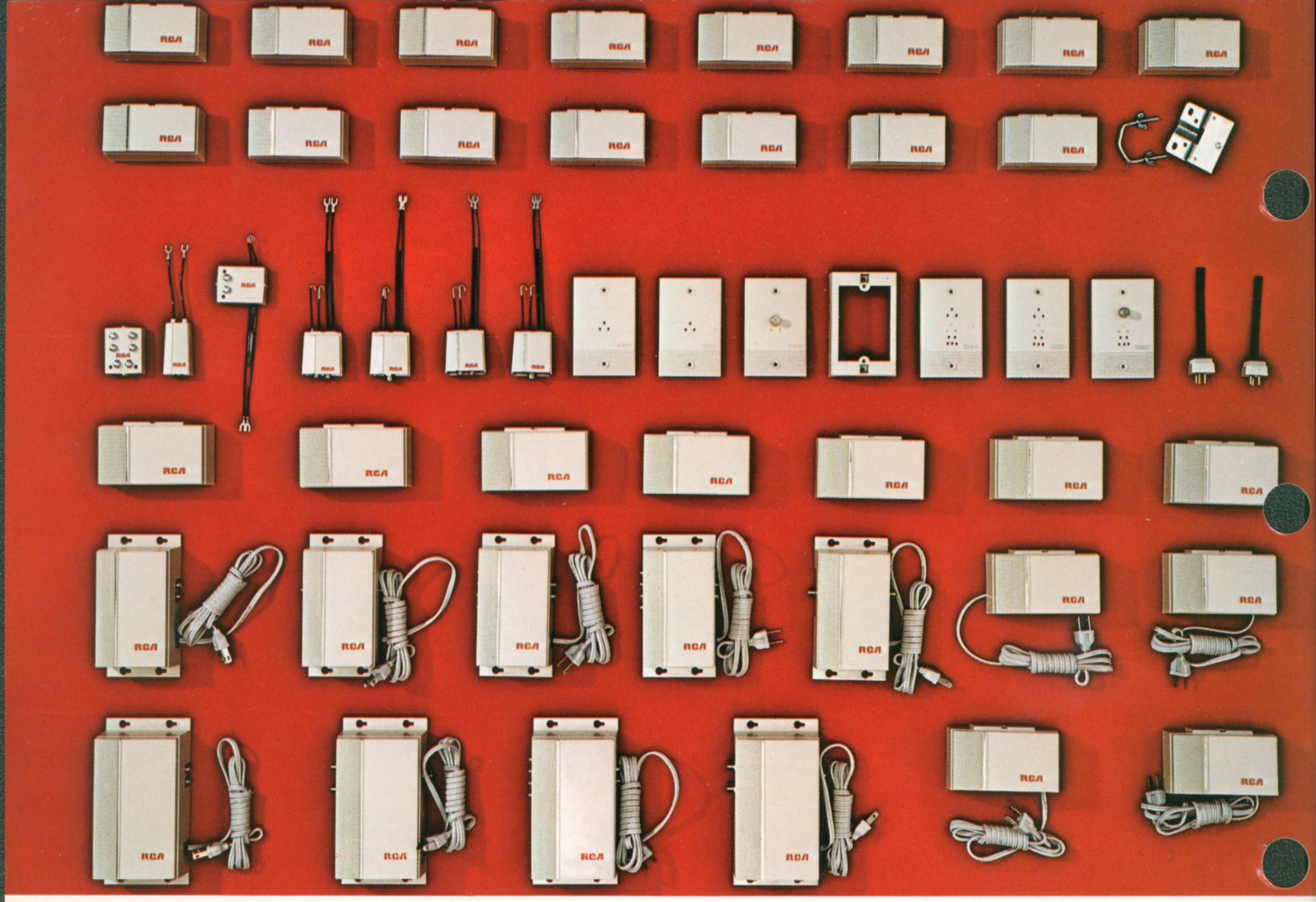
A complete new look from RCA in Antenna System Accessories



Multi-Set Couplers

2. **10G216*** 2 Set Coupler 300 ohm
3. **10G217*** 2 Set Coupler 75 ohm
4. **10G218*** 4 Set Coupler 300 ohm
5. **10G219*** 4 Set Coupler 75 ohm
17. **10A180*** Economy 2 Set Coupler 300 ohm

Band Separators (Back of Set)

19. **10A135*** Economy Band Separator V/U 300 ohm
20. **10G220*** Band Separator VHF/UHF 300 ohm
21. **10G221*** Band Separator VHF/UHF 75 ohm/300 ohm
22. **10G233*** Band Separator V/U/F 300 ohm
23. **10G234*** Band Separator V/U/F 75 ohm/300 ohm

Band Separators (Wall Mount)

6. **10G222*** Band Separator V/U 300 ohm
7. **10G223*** Band Separator V/U 75 ohm/300 ohm
8. **10G224*** Band Separator V/U/F 300 ohm
9. **10G225*** Band Separator V/U/F 75 ohm/300 ohm

Matching Transformers

1. **10G214*** Outdoor Matching Transformer
18. **10G215*** Indoor/Outdoor Match Transformer

Antenna Couplers

2. **10G216*** Antenna Coupler V/U 300 ohm
6. **10G222*** Antenna Coupler V/U 300 ohm
7. **10G223*** Antenna Coupler V/U 300 ohm/75 ohm
8. **10G224*** Antenna Coupler V/U/F 300 ohm
9. **10G225** Antenna Coupler V/U/F 300 ohm/75 ohm
10. **10G226*** Antenna Coupler VHF HI-LO 300 ohm
11. **10G227*** Antenna Coupler VHF HI-LO 300 ohm 75 ohm

Interference Filters and Traps

12. **10G229*** Interference Filter –300 ohm
13. **10G230*** FM Band Trap –300 ohm
14. **10G231*** TV Ch. Trap Ch. 2-6 –300 ohm
15. **10G232*** TV Ch. Trap Ch. 7-13 –300 ohm

Wall Outlets and Plugs

24. **10G301*** TV 300/300 Wall Plate
25. **10G302*** TV 75/300 Wall Plate
26. **10G303*** TV 75/75 Wall Plate
27. **10G325*** Receptacle Box Surface Mount
28. **10G304*** TV 300/300-Rotor Wall Plate
29. **10G305*** TV 75/300-Rotor Wall Plate
30. **10G306*** TV 75/75-Rotor Wall Plate
31. **10G321*** TV Plugs
32. **10G322** Rotor Plugs

Preamplifiers

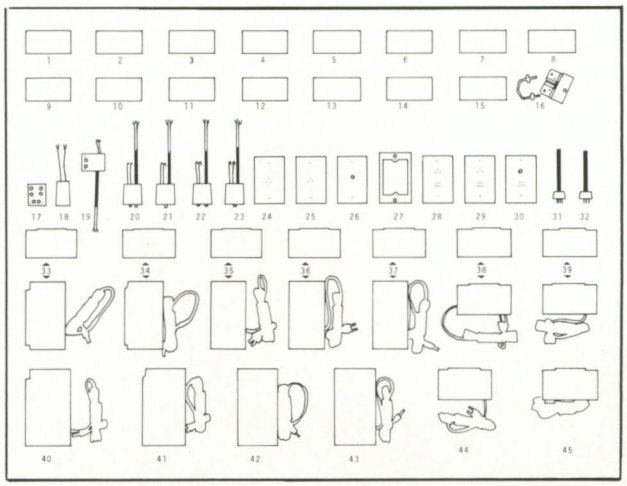
33. **10G201** Pre Amp 300 ohm VHF/FM
34. **10G202** Pre Amp 75 ohm VHF/FM
35. **10G203** Pre Amp 300 ohm UHF
36. **10G204** Pre Amp 300 ohm VHF/UHF/FM
37. **10G205** Pre Amp 75 ohm VHF/UHF/FM
38. **10G206** Economy Preamp VHF/FM 300 ohm
39. **10G207** Economy Preamp VHF/FM—75 ohm

Distribution Amplifiers

40. **10G208** Dist. Amp VHF/FM 300 ohm
41. **10G209** Dist. Amp VHF/FM—75 ohm
42. **10G210** Dist. Amp 300 ohm VHF/UHF/FM
43. **10G211** Dist. Amp 75 ohm VHF/UHF/FM
44. **10G212** Amp Coupler VHF/UHF/FM 300 ohm
45. **10G213** Amp Coupler VHF/UHF/FM 75 ohm

Hardware

16. Mounting Bracket Included



*These products are blister packed.

A complete new look from RCA in Antenna System Accessories

RCA's all new line of Antenna System Accessories has been planned and designed to fulfill specific requirements of any antenna system in every detail. Covering every requirement from a simple passive two-set coupler up to a complete amplified, 82-channel coaxial multi-outlet distribution system for houses, offices, stores and small apartment buildings, this new line is complete in every respect and represents a new standard of performance, convenience and styling.

The entire line is advance-engineered by RCA to meet rigid performance standards. RCA's all-solid-state circuitry provides dependable trouble-free performance. Protection against lightning induced voltage surges is provided in all amplifiers. All passive devices designed for low insertion loss.

All housings have RCA's "new-look styling" in molded high IMPAC® plastic cabinets. Similar styling design for all models presents a uniform appearance for a complete line.

Installation convenience . . . mounting is simplified with the use of the new RCA "slip-on" clamps. No solder connections are required to connect any model into a system. Serrated washers simplify connecting 300-ohm line to the devices. All hardware, complete installation instructions and system wiring connectors are included with every model.

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Preamplifiers 16

Distribution Amplifiers 24

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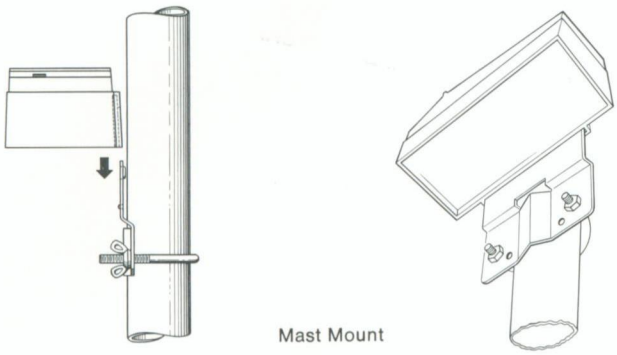
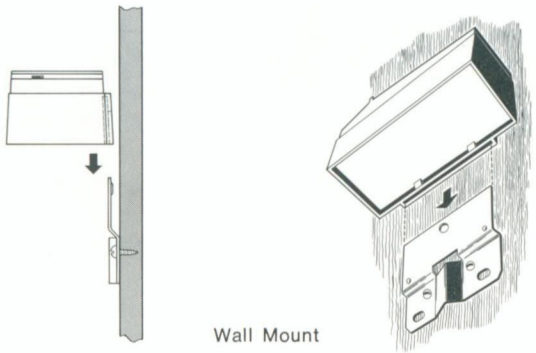
RCA's New Easy Installation Features



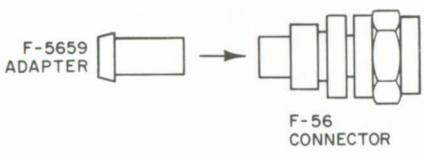
Mast Mount



Wall Mount

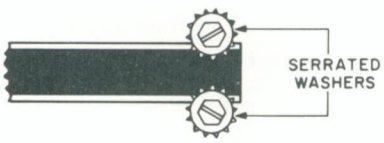
RCA's unique "slip-on" clamp system is designed for quick, easy mast or surface mounting. The aluminum bracket can be easily mounted without interference from housing or wiring. The high IMPAC® plastic case then slips over the bracket and snaps in place for positive mounting (see illustration below). These clamps are included on all units except distribution amplifiers and "Back Of Set" devices.

A new exclusive RCA adapter F-5659 permits connection of either RG-59/C, RG-6/U, or foam dielectric coaxial cable to the RCA F-56 connector. Complete instructions and F/5659 adapters are included where applicable.



For RG-59/U cables the F5659 adapter is inserted into the F56 connector for complete easy snug installation

Serrated washer connections eliminate need for any soldering. All RCA models have these quick easy connections where 300 ohm twin lead is used.



RCA

Antenna System Accessories

Multi-Set Couplers

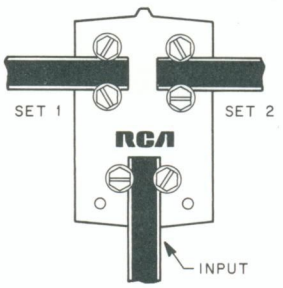
RCA Multi-Set Couplers are used to connect additional TV or FM receivers to an antenna downlead or to the output of a signal amplifier. These units are characterized by low insertion loss, excellent isolation, and simplified installation. Two-set and four-set couplers are available in both 300 ohm and 75 ohm versions. All terminals are plainly marked for quick identification. Serrated washers are provided on 300 ohm models for easy connection of twin lead. F-56 connectors and F-5659 adapters are supplied with co-ax models. All mounting hardware and instructions are included.

Two-Set Couplers

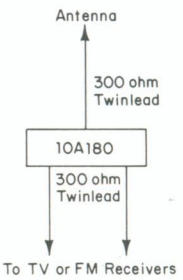
Model 10A180

82 Channel TV | FM

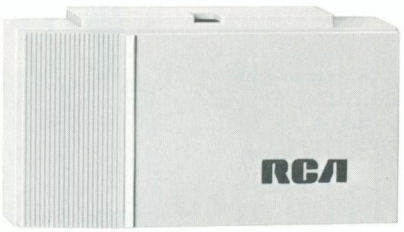
(300 ohm input | 300 ohm output)



Terminal Connections



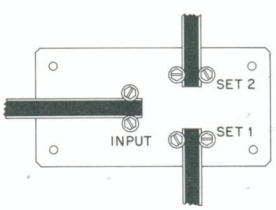
Economy Model for connecting a single 300 ohm downlead to two TV and/or FM sets. Model 10A180 is ideally suited for installation in medium to strong signal areas.



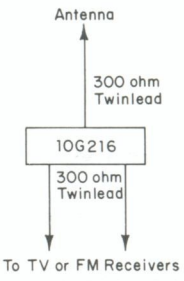
Model 10G216

82 Channel TV | FM

(300 ohm input | 300 ohm output)



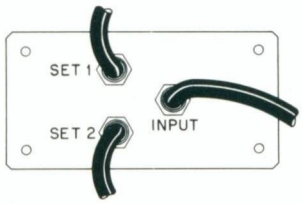
Terminal Connections



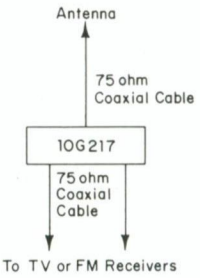
Low-loss transformer type coupler for connecting a single downlead to two TV and/or FM sets. Easily installed on a mast or a flat surface.

Two-Set Couplers (continued)

Model 10G217
82 Channel TV|FM
(75 ohm input|75 ohm output)



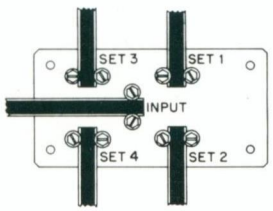
Terminal Connections



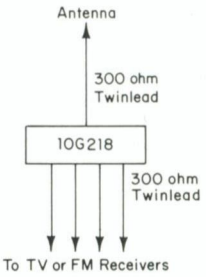
Low-loss transformer type coupler for connecting a single downlead to two TV and/or FM sets. Easily installed on a mast or a flat surface.

Four-Set Couplers

Model 10G218
82 Channel TV|FM
(300 ohm input|300 ohm output)

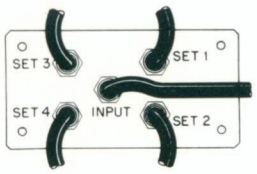


Terminal Connections

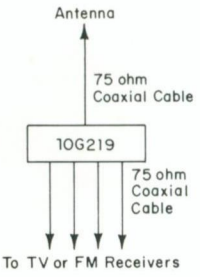


Low loss transformer type coupler for connecting a single 300 ohm downlead or signal amplifier to four TV and/or FM sets. Easily installed on a mast or a flat surface.

Model 10G219
82 Channel TV|FM
(75 ohm input|75 ohm output)



Terminal Connections



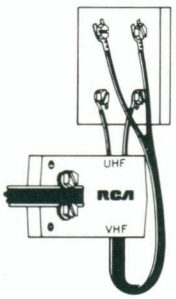
Low-loss transformer type coupler for connecting a single 75 ohm coaxial cable downlead or single amplifier to four TV and/or FM sets. Easily installed on a mast or a flat surface.

RCA Antenna System Accessories

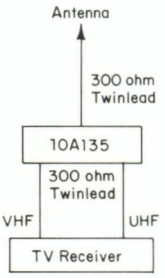
Band Separators
(Back of Set)

RCA Band Separators are designed to separate the combined VHF-UHF-FM signals from a single downlead, 82 channel antenna system and feed the appropriate signals to the VHF, UHF, and FM terminals of a TV or FM set. Models are available with either 300 ohm or 75 ohm input. All terminals are plainly marked for quick identification. Serrated washers are provided on 300 ohm models for easy connection of twin lead. F-56 connectors and F-5659 adapters are supplied with co-ax models. All mounting hardware and instructions are included.

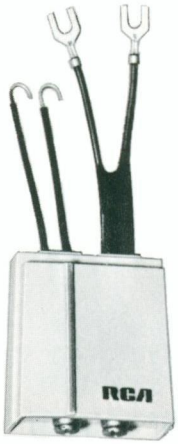
Model 10A135
VHF|UHF
(300 ohm input|300 ohm output)



Terminal Connections

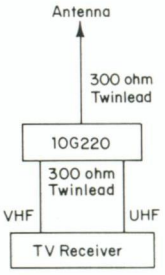


Compact VHF|UHF Band Separator for connecting a 300 ohm antenna downlead to the separate VHF and UHF terminals of a TV set. Includes preassembled leads and terminal lugs for quick connection to set terminals.



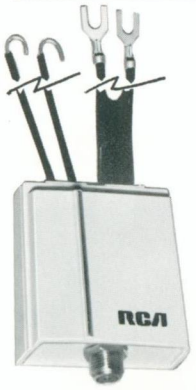
Model 10G220
Deluxe VHF|UHF
(300 ohm input|300 ohm output)

Terminal Connections



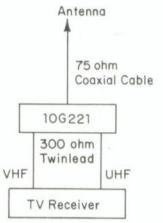
Deluxe VHF|UHF band separator for connecting a 300 ohm antenna downlead to the separate VHF and UHF terminals of a TV set. Features low loss, excellent impedance match, and high isolation between outputs. Includes preassembled leads and terminal lugs for quick connection to set terminals.

Band Separators
(Back of Set)

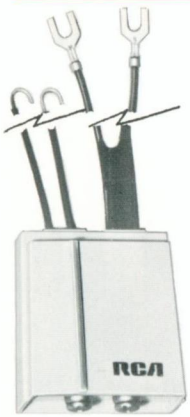


Model 10G221
Deluxe VHF|UHF Band Separator/Transformer
(75 ohm input|300 ohm output)

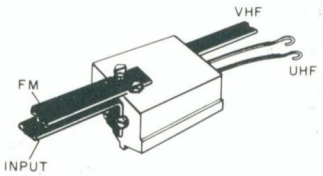
Terminal Connections



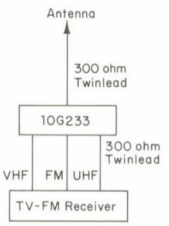
Deluxe model for connecting a 75 ohm coaxial cable downlead to the separate VHF and UHF terminals of a TV set. Includes a 75 ohm to 300 ohm matching transformer and features low loss, excellent impedance match, and high isolation between outputs. Pressembled leads and terminal lugs provide for quick connection to set terminals.



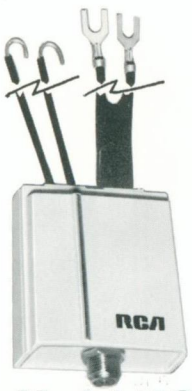
Model 10G233
Deluxe VHF|UHF|FM
(300 ohm input|300 ohm output)



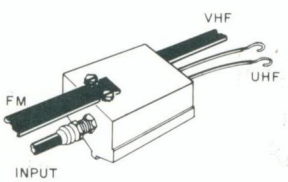
Terminal Connections



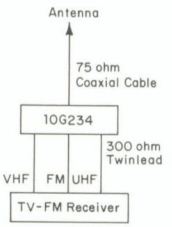
Deluxe model for connecting a single 300 ohm antenna downlead to the separate VHF, UHF, and FM terminals of a combination TV-FM set or separate TV and FM sets. Features low loss, excellent impedance match, and high isolation between outputs. Includes preassembled leads and terminal lugs for quick connection to set terminals.



Model 10G234
Deluxe VHF|UHF|FM Band Separator/Transformer
(75 ohm input|300 ohm output)

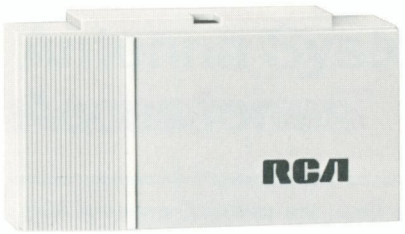


Terminal Connections

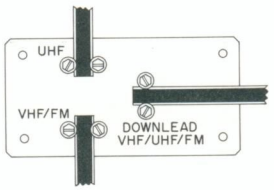


Deluxe model for connecting a single 75 ohm coaxial cable downlead to the separate VHF, UHF, and FM terminals of a combination TV-FM set or separate TV and FM sets. Includes an internal 75 ohm to 300 ohm matching transformer and features low loss, excellent impedance match, and high isolation between outputs. Includes preassembled leads and terminal lugs for quick connection to set terminals.

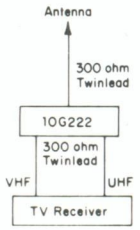
Band Separators
(Wall Mount)



Model 10G222
VHF | UHF
(300 ohm input | 300 ohm output)

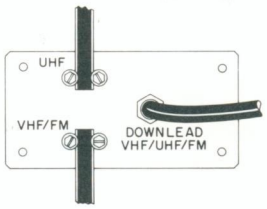


Terminal Connections

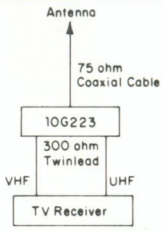


Low loss band separator for connecting a single 300 ohm downlead to the separate VHF and UHF terminals of a TV set. Housing may be installed on the back of the set or on a flat surface near the set for convenient connection of the twin lead lines.

Model 10G223
VHF-FM | UHF Band Separator/Transformer
(75 ohm input | 300 ohm output)

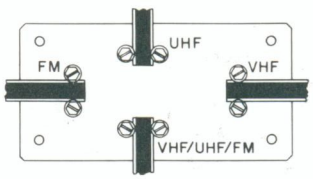


Terminal Connections

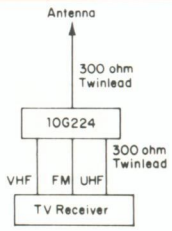


Low loss band separator for connecting a single 75 ohm coaxial cable downlead to the separate VHF and UHF terminals of a TV set. Includes an internal 75 ohm to 300 ohm matching transformer. Housing may be installed on the back of the set or on a flat surface near the set for convenient connection of the twin lead lines.

Model 10G224
VHF | UHF | FM
(300 ohm input | 300 ohm output)

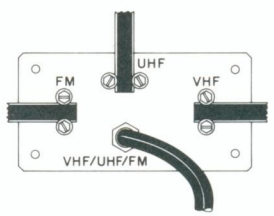


Terminal Connections

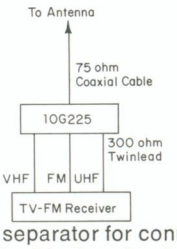


Low loss band separator for connecting a single 300 ohm downlead to the separate VHF, UHF, and FM terminals of a combination TV-FM set or separate TV and FM sets. Housing may be installed on the back of the set or on a flat surface near the set for convenient connection of the twin lead lines.

Model 10G225
VHF | UHF | FM Band Separator/Transformer
(75 ohm input | 300 ohm output)



Terminal Connections

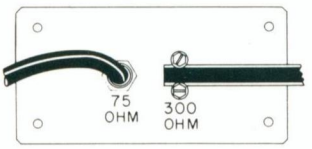


Low loss band separator for connecting a single 75 ohm coaxial cable downlead to the separate VHF, UHF, and FM terminals of a combination TV-FM set or separate TV and FM sets. Includes an internal 75 ohm to 300 ohm matching transformer. Housing may be installed on the back of the set or on a flat surface near the set for convenient connection of the twin lead lines.

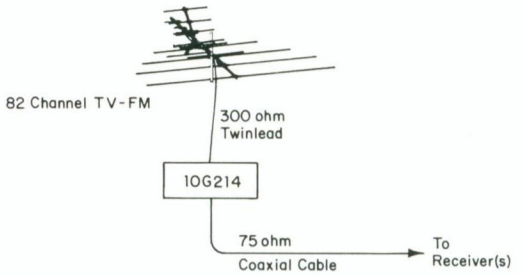
Antenna System Accessories

Matching Transformers
(UHF|VHF Baluns)

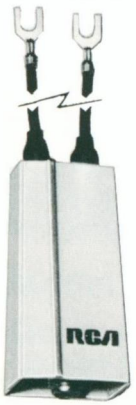
Model 10G214 Deluxe
82 Channel TV|FM
(300 ohm to 75 ohm)



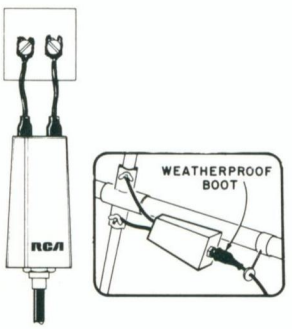
Terminal Connections



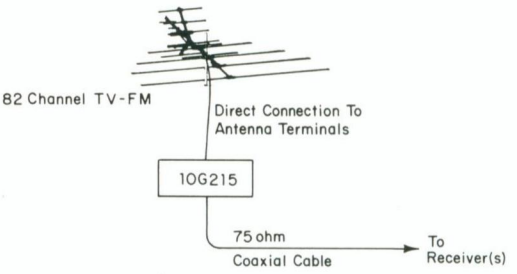
Matches a 300 ohm TV-FM antenna or TV set to a 75 ohm coaxial cable downlead. Weatherproof type housing may be installed on the mast or on a flat surface for convenient connection of the twin lead line and the 75 ohm coaxial cable downlead. Slip-on clamp and "U" bolt included.



Model 10G215 Indoor/Outdoor
82 Channel TV|FM
(300 ohm to 75 ohm)



Terminal Connections



Matches a 300 ohm TV-FM antenna or TV set to a 75 ohm coaxial cable downlead. Pre-assembled leads connect directly to antenna or set terminals. Includes a weatherproof boot to protect the 75 ohm coaxial cable downlead connector. Ideal for connecting TV sets to multiple outlet coaxial signal distribution systems.

Antenna System Accessories

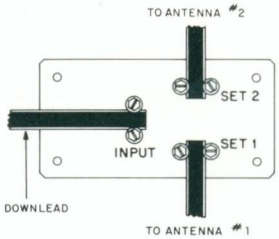
Antenna Couplers

RCA Antenna Couplers are used to combine the signals of two or more antennas and feed the combined signals to a single downlead. Versions are available for connecting combinations of VHF, UHF, and FM antennas to either a 75 ohm coaxial cable or a 300 ohm downlead. All terminals are plainly marked for quick identification. Serrated washers are provided on 300 ohm models for easy connection of twin lead. F-56 connectors and F-5659 adapters, supplied with co-ax models. All mounting hardware and installation instructions are included.

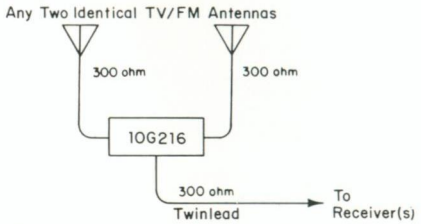
Model 10G216

Two Identical TV-FM Antennas

(300 ohm input|300 ohm output)



Terminal Connections

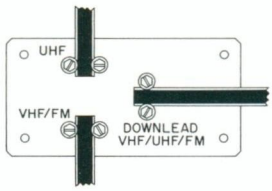


Combines the outputs of any two identical antennas pointed in the same direction to provide increased signal and feeds the increased signal level to a single downlead. Housing is easily installed on the mast for convenient connection of the twin lead lines.

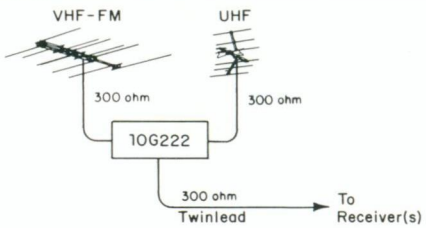
Model 10G222

VHF-FM|UHF Antennas

(300 ohm input|300 ohm output)



Terminal Connections

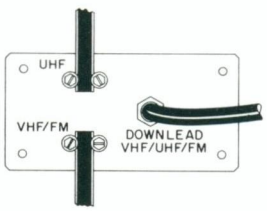


Combines the outputs of a VHF-FM antenna and an UHF antenna and feeds the combined signals to a 300 ohm downlead. Housing is easily installed on the mast for convenient connection of the twin lead lines.

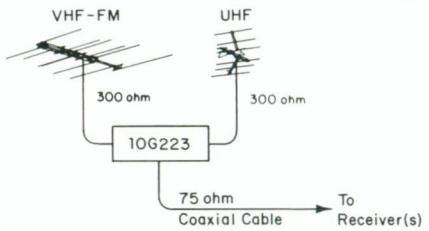
Model 10G223

VHF-FM|UHF Antenna Coupler/Transformer

(300 ohm input|75 ohm output)



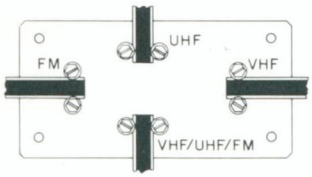
Terminal Connections



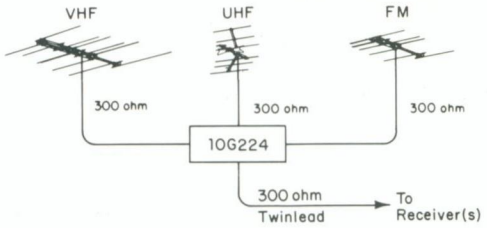
Combines the outputs of a VHF-FM antenna and an UHF antenna and feeds the combined signals to a 75 ohm coaxial cable downlead. Includes an internal 300 ohm to 75 ohm matching transformer. Housing is easily installed on the mast for convenient connection of the antenna twin lead lines and the 75 ohm coaxial cable downlead.

Antenna Couplers

Model 10G224
VHF|UHF|FM Antennas
(300 ohm input|300 ohm output)

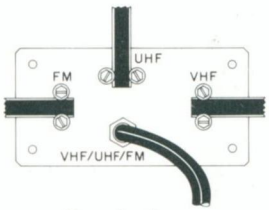


Terminal Connections

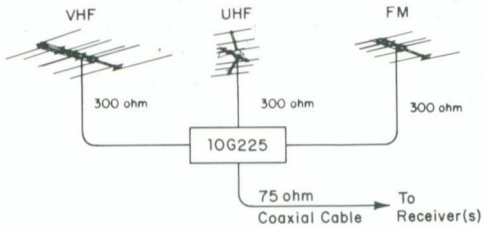


Combines the outputs of seperate VHF, UHF, and FM antennas and feeds the combined signals to a 300 ohm downlead. Housing is easily installed on the mast for convenient connection of the twin lead lines.

Model 10G225
VHF|UHF|FM Antenna Coupler/Transformer
(300 ohm input|75 ohm output)

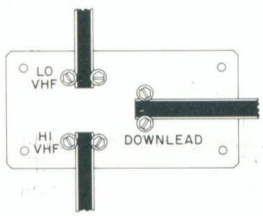


Terminal Connections

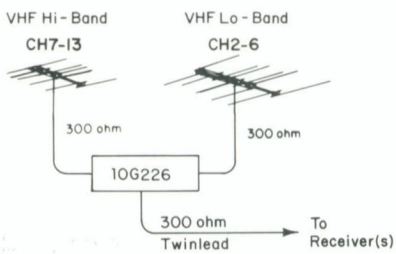


Combines the outputs of seperate VHF, UHF, and FM antennas and feeds the combined signals to a 75 ohm coaxial cable downlead. Includes an internal 300 ohm matching transformer. Housing is easily installed on the mast for convenient connection of the antenna twin lead lines and the 75 ohm coaxial cable downlead.

Model 10G226
VHF Hi-Lo Antennas
(300 ohm input|300 ohm output)

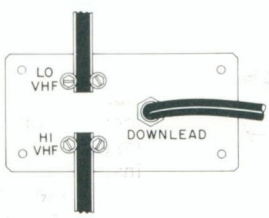


Terminal Connections

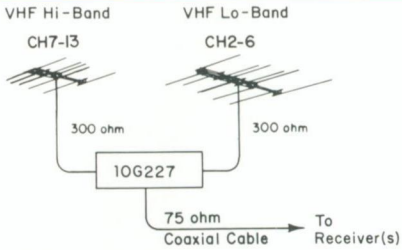


Combines the outputs of seperate high band VHF and low band VHF antennas and feeds the combined signals to a 300 ohm downlead. Housing is easily installed on the mast for convenient connection of the twin lead lines.

Model 10G227
VHF Hi-Lo Antenna Coupler/Transformer
(300 ohm input|75 ohm output)



Terminal Connections

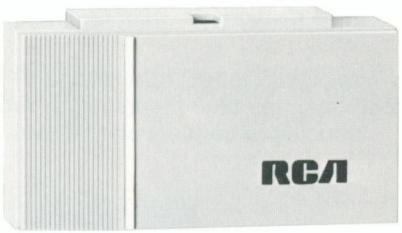


Combines the outputs of seperate high band VHF and low band VHF antennas and feeds the combined signals to a 75 ohm coaxial cable downlead. Includes an internal 300 ohm to 75 ohm matching transformer. Housing is easily installed on the mast for convenient connection of the antenna twin lead lines and the 75 ohm coaxial cable downlead.

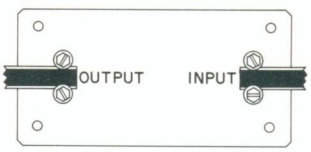
Antenna System Accessories

Interference Filters and Traps

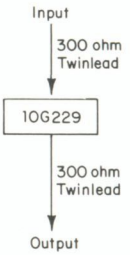
RCA Interference Filters and Traps are used to eliminate the various types of interference usually encountered in TV reception. All terminals are plainly marked for quick identification and include serrated washers for easy connection of 300 ohm twin lead. The housing may be installed on the back of the set or on a flat surface near the set for convenient connection of the twin lead lines. Mounting hardware and installation instructions are included.



Model 10G229
Interference Filter
(300 ohm input|300 ohm output)

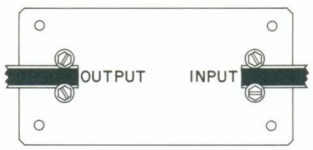


Terminal Connections

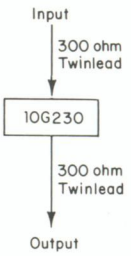


Reduces interference on a TV set caused by amateur radio, neon lights, medical diathermy, and other adjacent sources. Traps out signals below 50 Megahertz and from 110 to 170 Megahertz. Fix-tuned trap.

Model 10G230
FM Band Trap
(300 ohm input|300 ohm output)

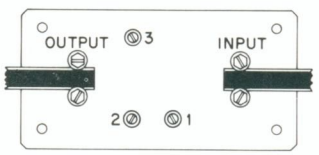


Terminal Connections

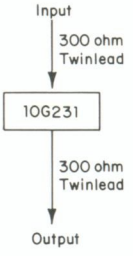


Reduces Interference on a TV set caused by strong local FM stations. Fix-tuned trap.

Model 10G231
VHF Low Band Channel Trap
(300 ohm input|300 ohm output)



Terminal Connections



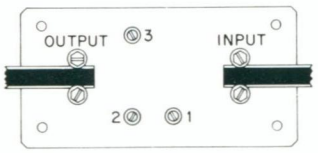
Reduces TV/FM interference caused by strong local TV stations (Channels 2 to 6). Trap may be turned to attenuate one, two, or three low band channels.

Interference Filters and Traps

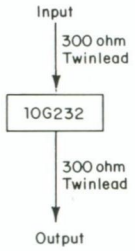
Model 10G232

VHF High Band Channel Trap

(300 ohm input|300 ohm output)



Terminal Connections



Reduces TV|FM interference caused by strong local TV stations (Channels 7 to 13). Trap may be tuned to attenuate one, two, or three high band channels.

RCA

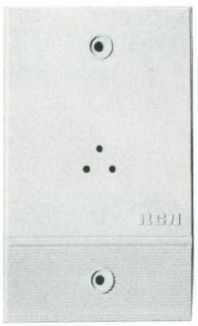
Antenna System Accessories

Wall Outlets and Plugs
(Solderless)

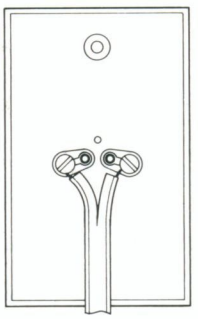
RCA Wall Outlets and Plugs are molded of high IMPAC® plastic, and provide for convenient plug-in connection of a TV or FM set to an antenna system downlead. Three models include an additional plug-in connection for a rotator motor-control line. Versions are available for use with 300 ohm twin lead and 75 ohm coaxial cable downleads. F-56 connectors with F-5659 adapters are supplied with co-ax models. All mounting hardware, mating plugs and instructions included.

The wall outlet may be surface mounted by installing the outlet plate on a Model 10G325 Wall Outlet Box.

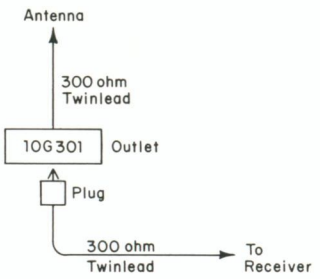
TV and Rotator Outlet Plugs are available separately, for replacement or to equip additional receivers for alternate connection to an outlet.



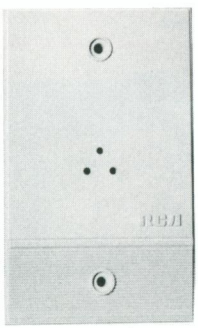
Model 10G301
82 Channel TV|FM
(300 ohm input|300 ohm output)



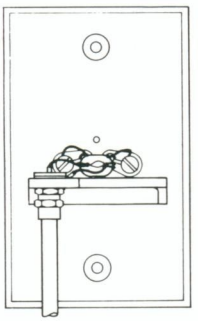
Terminal Connections



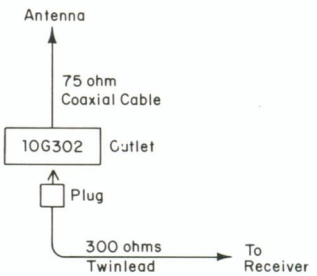
Flush mounted wall plate for providing convenient connection between a 300 ohm antenna downlead and a TV or FM set. Outlet plug included.



Model 10G302
82 Channel TV|FM Outlet With Transformer
(75 ohm input|300 ohm output)

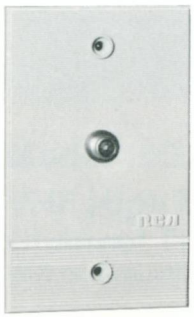


Terminal Connections

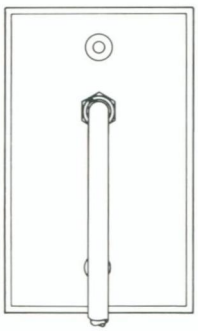


Flush mounted wall plate for providing convenient connection between a 75 ohm coaxial cable downlead and a TV or FM set. Built in 75 ohm to 300 ohm matching transformer. Outlet plug and co-ax connector included.

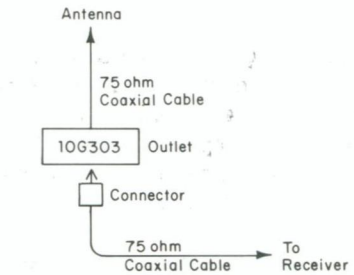
Wall Outlets and Plugs
(Solderless)



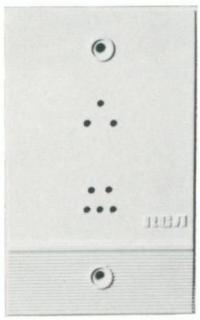
Model 10G303
82 Channel TV|FM
(75 ohm input|75 ohm output)



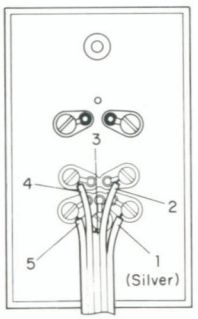
Terminal Connections



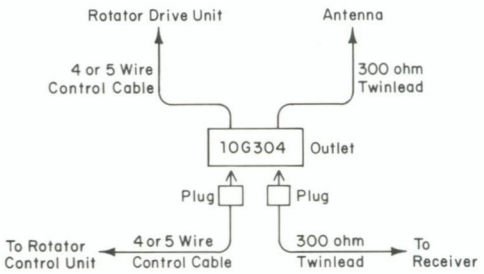
Flush mounted wall plate for providing convenient connection between a 75 ohm coaxial cable downlead and a 75 ohm coaxial cable lead to a TV|FM set. Co-ax connectors included.



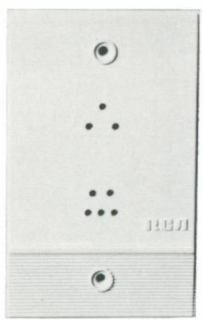
Model 10G304
82 Channel TV|FM and Rotator Outlet
(300 ohm input|300 ohm output)



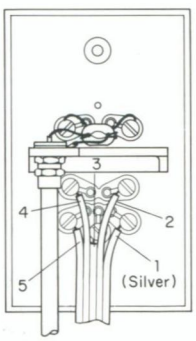
Terminal Connections



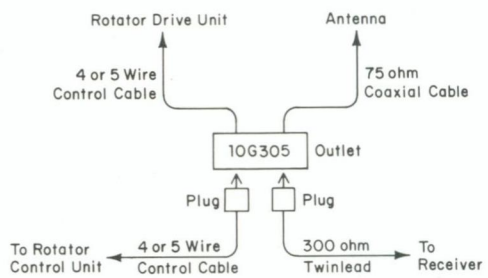
Flush mounted wall plate for providing convenient connections from a 300 ohm antenna downlead to a TV|FM set. Also from a rotator cable to a rotator control unit. TV and rotator outlet plugs included.



Model 10G305
82 Channel TV|FM and Rotator Outlet With Transformer
(75 ohm input|300 ohm output)

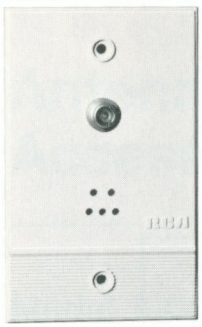


Terminal Connections

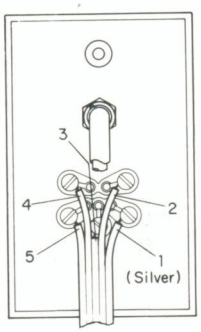


Flush mounted wall plate for providing convenient connections from 75 ohm coaxial cable downlead to 300 ohm TV|FM set, also from a rotator cable to a rotator control unit. Built in 75 ohm to 300 ohm matching transformer. TV and rotator outlet plugs and co-ax connector included.

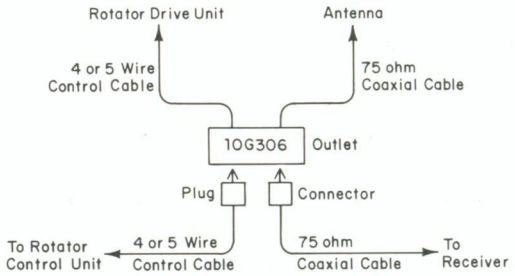
Wall Outlets and Plugs
(Solderless)



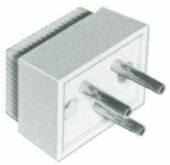
Model 10G306
82 Channel TV|FM and Rotator Outlet
(75 ohm input|75 ohm output)



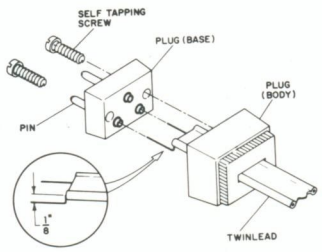
Terminal Connections



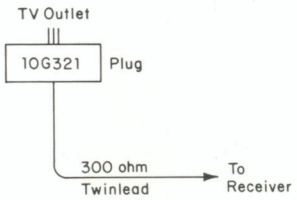
Flush mounted wall plate for providing convenient connections from a 75 ohm coaxial cable downlead to a coaxial cable lead for a TV|FM set, also from a rotator cable to a rotator control unit. Rotator outlet plug and co-ax connectors included.



Model 10G321
TV|FM Outlet Plug
(300 ohm)

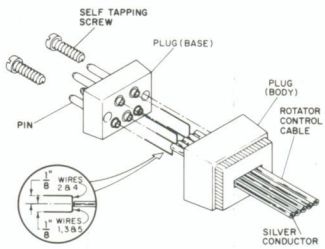


Terminal Connections

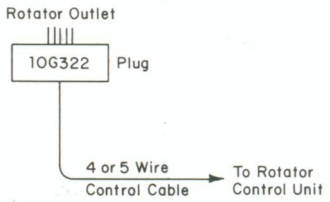


TV|FM Outlet Plug mates with all RCA "300" series wall outlet plates.

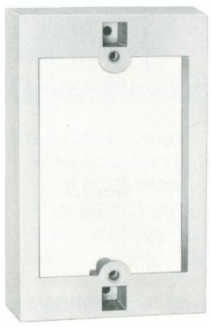
Model 10G322
Rotator Outlet Plug
(4 or 5 wire)



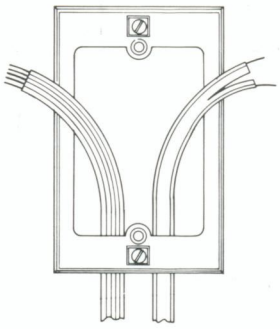
Terminal Connections



Rotator Outlet Plug mates with all RCA "300" series wall outlet plates.



Model 10G325
TV|FM Wall Outlet Box



Surface mounted housing for use with any RCA "300" series TV-FM or TV-FM|Rotator wall outlet plate.

RCA Preamplifier Application Data

Model	Impedance (ohms)			No. of Outputs	VHF	UHF	FM
	Input	Downlead	Output				
10G201	300	300	300	2	▶	⟿	▷
10G202	300	75	75	1	▶	⟿	▷
10G203	300	300	300	2	⟿	▶	⟿
10G204	300	300	300	2	▶	▶	▷
10G205	300	75	75	1	▶	▶	▷
10G206	300	300	300	1	▶	X	▶
10G207	300	75	300	1	▶	X	▶

Key:

- ▶ Amplifies
- ⟿ Passes without amplification
- X Does not pass
- ▷ FM amplification or attenuation; selectable

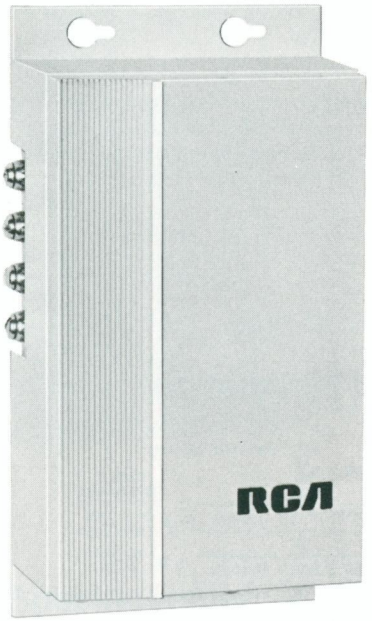
Antenna System Accessories

Preamplifiers

Model 10G201

VHF|FM (UHF Bypassed) 300 Ohm System

Preamplifier



Power Supply

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz
UHF: 470-890 MHz (Fed through without amplification)

Amplifier Input Impedance
300 ohms

Downlead Impedance
300 ohms

Power Supply RF Output Impedance
(2) 300 ohms

Gain (Average)
14 dB per output

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 2.1 watts

Description

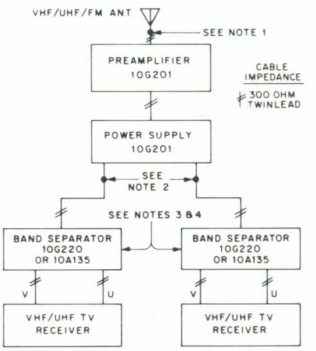
RCA Model 10G201 solid state VHF/FM preamplifier is designed for use in VHF signal areas where UHF signals do not require amplification. When the preamplifier is used with a combination VHF/UHF/FM antenna or separate VHF/FM and UHF antennas, the UHF signals are fed through the amplifier unit with negligible loss. FM signals may be amplified or attenuated by actuating a selector switch.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides two 300 ohm outputs to feed signals to one or two TV or FM receivers. In medium to strong signal areas, additional TV or FM receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G216, 10G218, or 10A180.

The power supply unit provides safe, low voltage AC power to the amplifier unit. This power is fed to the amplifier unit through the 300 ohm TV/FM transmission line.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

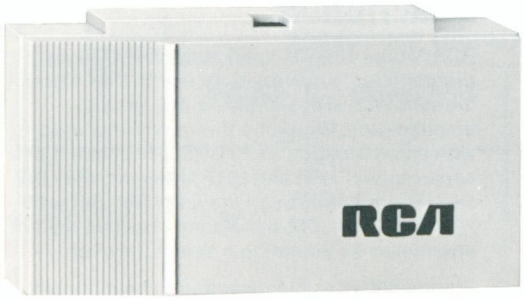
Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler (s).

Note 3: Band separators are not required for VHF TV or FM receivers.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G224 or 10G233 Band Separator.

Model 10G202

VHF/FM (UHF Bypassed) 75 Ohm System



Preamplifier

Power Supply

Description

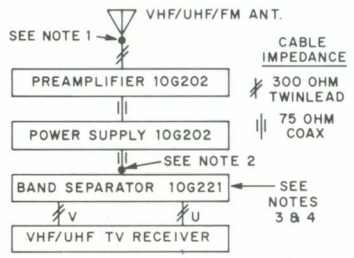
RCA Model 10G202 solid state VHF/FM preamplifier is designed for use in VHF signal areas where UHF signals do not require amplification. When the preamplifier is used with a combination VHF/UHF/FM antenna or seperate VHF/FM and UHF antennas, the UHF signals are fed through the amplifier unit with negligible loss. FM signals may be amplified or attenuated by actuating a selector switch.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides a 75 ohm output to feed signals to a TV or FM receiver. In medium to strong signal areas, additional TV or FM receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G217 or 10G219.

The power supply unit provides safe, low voltage AC power to the amplifier unit. This power is fed to the amplifier unit through the 75 ohm TV/FM transmission line.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler (s).

Note 3: For VHF TV or FM receivers, use 10G215 matching transformer.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G225 or 10G234 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz
UHF: 470-890 MHz (Fed through without amplification)

Amplifier Input Impedance
300 ohms

Downlead Impedance
75 ohms

Power Supply RF Output Impedance
75 ohms

Gain (Average)
15 dB

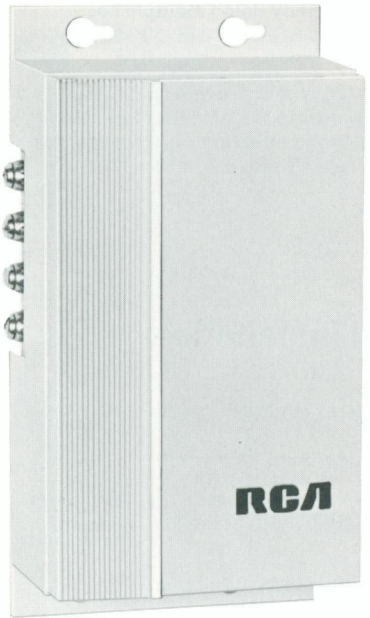
FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 2.1 watts

Model 10G203

UHF (VHF|FM Bypassed) 300 Ohm System

Preamplifier



Power Supply

Description

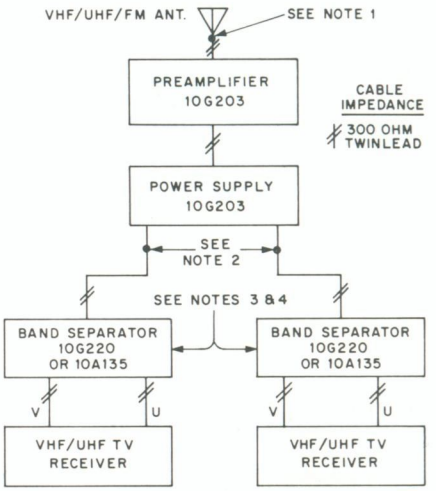
RCA Model 10G203 solid state UHF preamplifier is designed for use in UHF signal areas where VHF and FM signals do not require amplification. When the preamplifier is used with a combination VHF/UHF/FM antenna or separate VHF/FM and UHF antennas, the VHF and FM signals are fed through the amplifier unit with negligible loss.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides two 300 ohm outputs to feed signals to one or two TV receivers. In medium to strong signal areas additional receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G216, 10G218, or 10A180.

The power supply unit provides safe, low voltage AC power to the amplifier unit. This power is fed to the amplifier unit through the 300 ohm TV/FM transmission line.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler (s).

Note 3: Band separators are not required for FM receivers.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G224 or 10G233 Band Separator.

Specifications

Frequency Range
UHF: 470-890 MHz
VHF Low Band: 54-88 MHz (Fed through without amplification)
VHF High Band: 174-216 MHz (Fed through without amplification)
FM: 88-108 MHz (Fed through without amplification)

Amplifier Input Impedance
300 ohms

Downlead Impedance
300 ohms

Power Supply RF Output Impedance
(2) 300 ohms

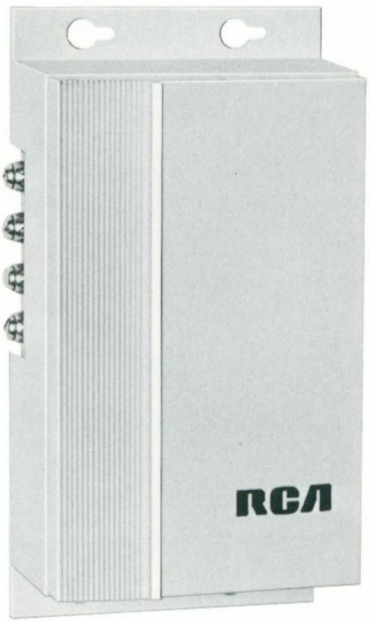
Gain (Average)
11 dB per output

AC Power Input
120 volts AC, 60 Hz, 3.2 watts

Model 10G204

VHF|UHF|FM
300 Ohm System

Preamplifier



Power Supply

Description

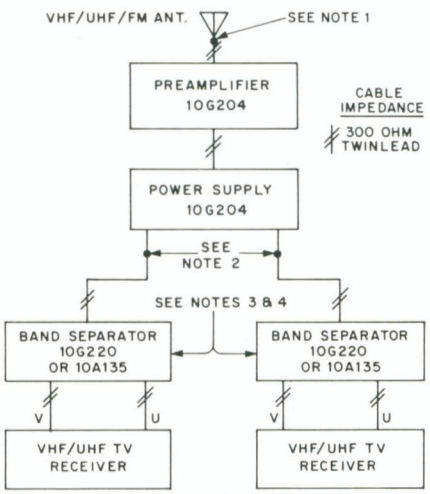
RCA Model 10G204 solid state VHF/UHF/FM preamplifier is designed for use in VHF/UHF/FM signal areas. FM signals may be amplified or attenuated by actuating a selector switch.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides two 300 ohm outputs to feed signals to one or two TV or FM receivers. In medium to strong signal areas, additional TV or FM receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G216, 10G218, or 10A180.

The power supply unit provides safe, low voltage AC power to the amplifier unit. This power is fed to the amplifier unit through the 300 ohm TV/FM transmission line.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler (s).

Note 3: Band separators are not required for VHF TV or FM receivers.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G224 or 10G233 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Amplifier Input Impedance
300 ohms

Downlead Impedance
300 ohms

Power Supply RF Output Impedance
(2) 300 ohms

Gain (Average)
11 dB per output

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.2 watts

Model 10G205

VHF|UHF|FM
75 Ohm System

Preamplifier

Power Supply

Description

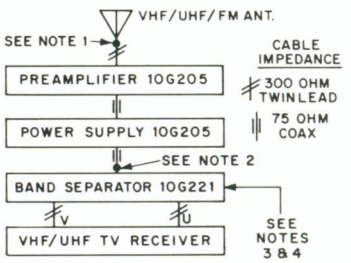
RCA Model 10G205 solid state VHF/UHF/FM preamplifier is designed for use in VHF/UHF/FM signal areas. FM signals may be amplified or attenuated by actuating a selector switch.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides a 75 ohm output to feed signals to a TV or FM receiver. In medium to strong signal areas, additional TV or FM receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G217 or 10G219.

The power supply unit provides safe, low voltage AC power to the preamplifier unit. This power is fed to the amplifier unit through the 75 ohm TV/FM transmission line.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note: 2: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

Note 3: For VHF TV or FM receivers, use 10G215 matching transformer.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G225 or 10G234 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Amplifier Input Impedance
300 ohms

Downlead Impedance
75 ohms

Power Supply RF Output Impedance
75 ohms

Gain (Average)
15 dB

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.2 watts

Model 10G206

VHF|FM
300 Ohm System

Preamplifier

Power Supply

Description

RCA Model 10G206 solid state VHF/FM preamplifier is designed to amplify VHF television and FM signals at the antenna.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The indoor mounted power supply unit provides a 300 ohm output to feed signals to the TV or FM receiver. In medium to strong signal areas, additional receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G216, 10G218, or 10A180.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz

Amplifier Input Impedance
300 ohms

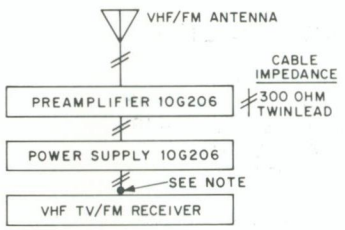
Downlead Impedance
300 ohms

Power Supply RF Output Impedance
300 ohms

Gain (Average)
15 dB

AC Power Input
120 volts AC, 60 Hz, 1.9 watts

Typical Installation



Note: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

Model 10G207

VHF|FM
75 Ohm System

Preamplifier

Power Supply

Description

RCA Model 10G207 solid state VHF/FM preamplifier is designed to amplify VHF television and FM signals at the antenna.

The amplifier unit is designed to be mounted outdoors on the antenna mast. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent lead-in losses and provide strong black-and-white or color signals to the receiver. Special lightning protection circuitry utilizing a low capacitance diode effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

The mast-mounted preamplifier unit is connected to the indoor-mounted power supply unit through a 75 ohm coaxial downlead, in order to minimize transmission line pickup of extraneous noises. The power supply unit has a 300 ohm output to feed signals to the 300 ohm terminals of the VHF TV or FM receiver. In medium to strong signal areas, additional receivers may be connected to the power supply unit by using multiple set couplers such as RCA 10G216, 10G218, or 10A180.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz

Amplifier Input Impedance
300 ohms

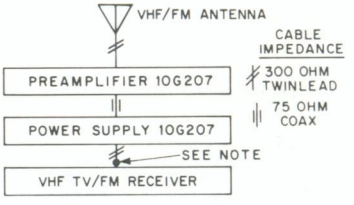
Downlead Impedance
75 ohms

Power Supply RF Output Impedance
300 ohms

Gain (Average)
15 dB

AC Power Input
120 volts AC, 60 Hz, 1.9 watts

Typical Installation



Note: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

RCA
Distribution Amplifier
Application Data

Model	Impedance (ohms)		No. of Outputs	VHF	UHF	FM
	Input	Output				
10G208	300	300	4	▶	X	▷
10G209	75	75	4	▶	X	▷
10G210	300	300	4	▶	▶	▷
10G211	75	75	4	▶	▶	▷
10G212	300	300	2	▶	▶	▶
10G213	75	75	2	▶	▶	▶

Key:

▶ Amplifies

X Does not pass

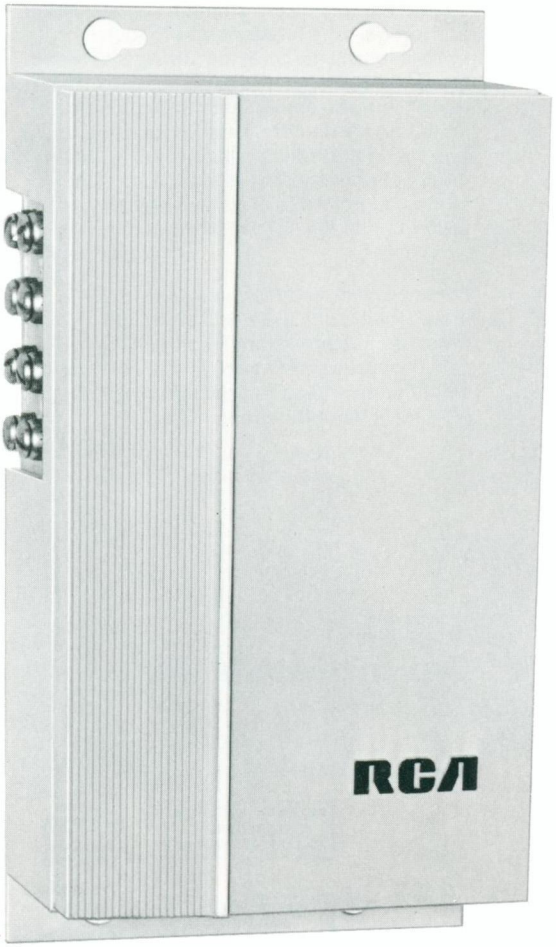
▷ FM amplification or attenuation; selectable

Antenna System Accessories

Distribution Amplifiers

Model 10G208

VHF|FM
300 Ohm System



Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz

Input Impedance
300 ohms

Output Impedance
(4) 300 ohms

Gain (Average)
7 dB per output

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.2 watts

Preamplifier Power
Switch selectable, 20 volts AC, 60 Hz

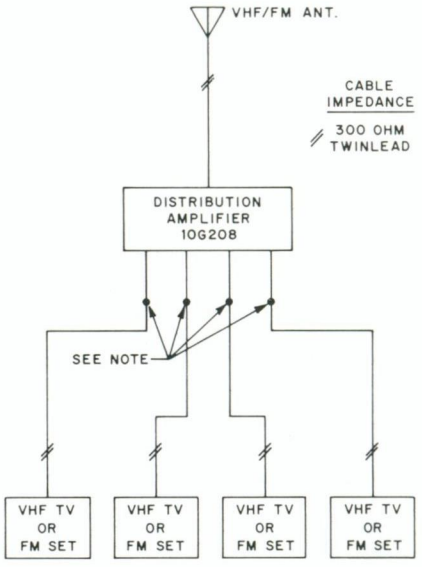
Description

RCA Model 10G208 VHF/FM Distribution Amplifier is designed to provide strong VHF television and FM signals for small and medium size distribution systems. Four 300 ohm outputs are provided. Additional receivers may be connected into the system by using two-set or four-set couplers such as RCA 10G216, 10G218, or 10A180.

The Distribution Amplifier is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. FM signals may be amplified or attenuated by actuating a selector switch. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

For improved reception in weak signal areas, the 10G208 Distribution Amplifier has provisions for supplying safe, low voltage AC power through the antenna-to-amplifier downlead to operate any 300 ohm RCA mast mounted preamplifier.

Typical Installation



Note: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

Model 10G209

VHF/FM
75 Ohm System

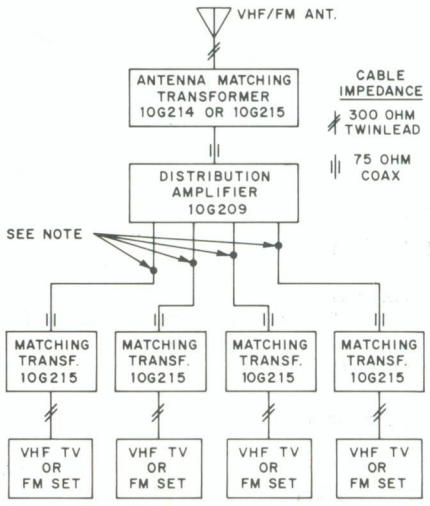
Description

RCA Model 10G209 VHF/FM Distribution Amplifier is designed to provide strong VHF television and FM signals for small and medium size distribution systems.
Four 75 ohm outputs are provided. Additional receivers may be connected into the system by using two-set or four-set couplers such as RCA 10G217 or 10G219 respectively.

The Distribution Amplifier is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. FM signals may be amplified or attenuated by actuating a selector switch. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

For improved reception in weak signal areas, the Model 10G209 Distribution Amplifier has provisions for supplying safe, low voltage AC through the antenna-to-amplifier downlead to operate any 75 ohm RCA mast mounted preamplifier.

Typical Installation



Note: To connect additional receivers, use RCA 2-set and/or 4-set coupler(s).

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
FM: 88-108 MHz

Input Impedance
75 ohms

Output Impedance
(4) 75 ohms

Gain (Average)
7 dB per output

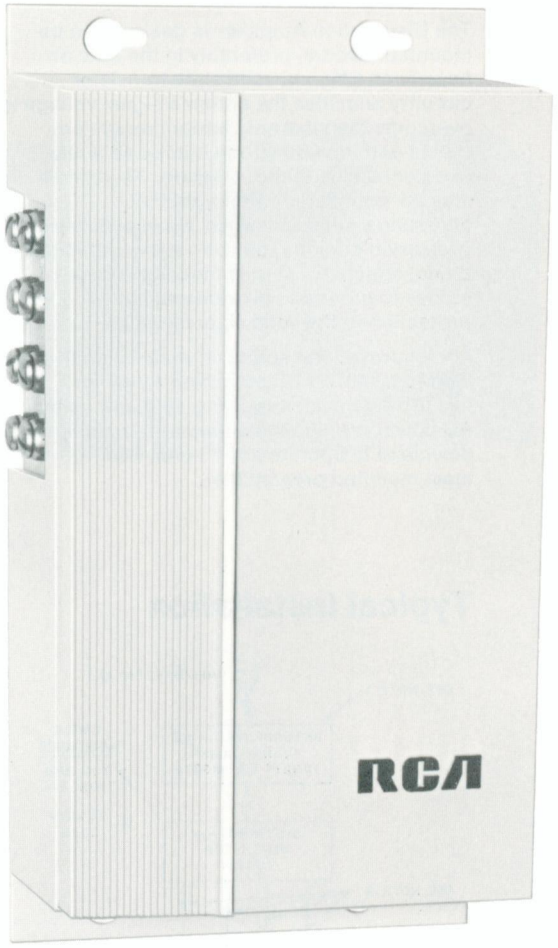
FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.2 watts

Preamplifier Power
Switch selectable,
20 volts AC, 60 Hz

Model 10G210

VHF | UHF | FM
300 Ohm System



Description

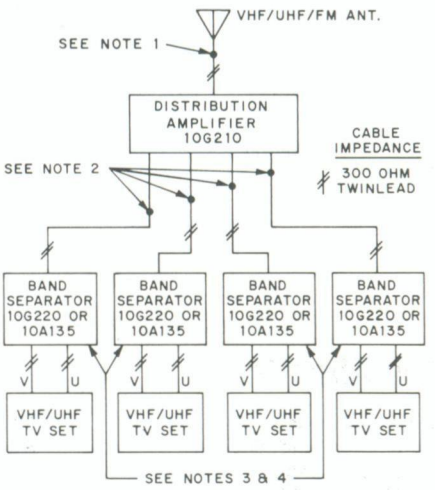
RCA Model 10G210 VHF/UHF/FM Distribution Amplifier is designed to provide strong VHF/UHF television and FM signals for small and medium size distribution systems. Four 300 ohm outputs are provided.

Additional receivers may be connected into the system by using two-set or four-set couplers such as RCA 10G216, 10G218, or 10A180.

The Distribution Amplifier is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. FM signals may be amplified or attenuated by actuating a selector switch. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

For improved reception in weak signal areas, the Model 10G210 Distribution Amplifier has provisions for supplying safe, low voltage AC power through the antenna-to-amplifier downlead to operate any 300 ohm RCA mast mounted preamplifier.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

Note 3: Band separators are not required for VHF TV or FM receivers.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G224 or 10G233 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Input Impedance
300 ohms

Output Impedance
(4) 300 ohms

Gain (Average)
7 dB per output

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.6 watts

Preamplifier Power
Switch selectable,
20 volts AC, 60 Hz

Distribution Amplifiers

Model 10G211
VHF|UHF|FM
75 Ohm System

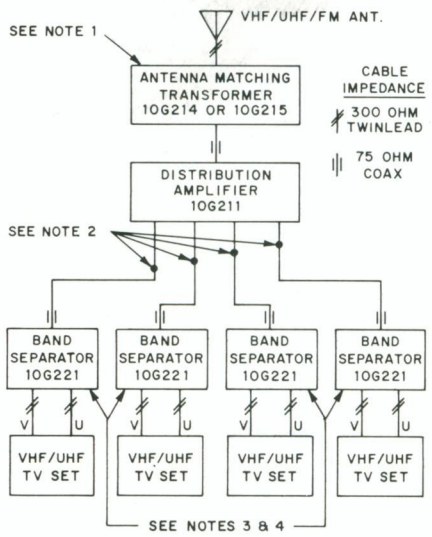
Description

RCA Model 10G211 VHF/UHF/FM Distribution Amplifier is designed to provide strong VHF/UHF television and FM signals for small and medium size distribution systems. Four 75 ohm outputs are provided. Additional receivers may be connected into the system by using two-set or four-set couplers such as RCA 10G217 or 10G219 respectively.

The Distribution Amplifier is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. FM signals may be amplified or attenuated by actuating a selector switch. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

For improved reception in weak signal areas, the Model 10G211 Distribution Amplifier has provisions for supplying safe, low voltage AC power through the antenna-to-amplifier downlead to operate any 75 ohm RCA mast mounted preamplifier.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler in place of matching transformer.

Note 2: To connect additional receivers use RCA 2-set and/or 4-set coupler(s).

Note 3: For VHF TV or FM receivers, use 10G215 matching transformer.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G225 or 10G234 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Input Impedance
75 ohms

Output Impedance
(4) 75 ohms

Gain (Average)
7 dB per output

FM Amplification/Attenuation
Switch selectable

AC Power Input
120 volts AC, 60 Hz, 3.6 watts

Preamplifier Power
Switch selectable,
20 volts AC, 60 Hz

Model 10G212

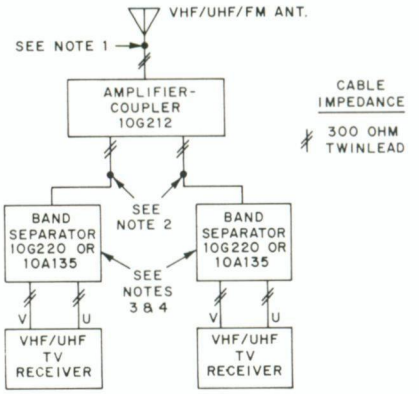
VHF|UHF|FM Amplifier-Coupler 300 Ohm System

Description

RCA Model 10G212 VHF/UHF/FM Amplifier-Coupler is designed to provide strong VHF/UHF television and FM signals for small distribution systems. Two 300 ohm outputs are provided. Additional receivers may be connected into the system by using two-set couplers such as RCA 10G216 or 10A180.

The Amplifier-Coupler is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

Typical Installation



Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Input Impedance
300 ohms

Output Impedance
(2) 300 ohms

Gain (Average)
VHF/FM: 11 dB per output
UHF: 4 dB per output

AC Power Input
120 volts AC, 60 Hz, 1.9 watts

Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna coupler.

Note 2: To connect additional receivers use RCA 2-set coupler.

Note 3: Band separators are not required for VHF TV or FM receivers.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G224 or 10G233 Band Separator.

Model 10G213

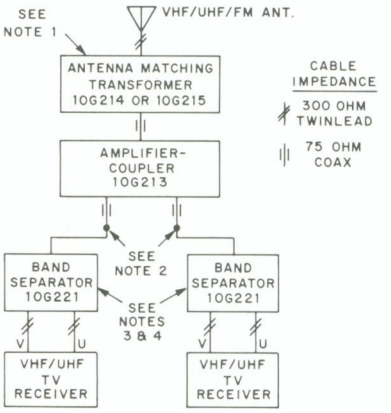
VHF|UHF|FM Amplifier-Coupler 75 Ohm System

Description

RCA Model 10G213 VHF/UHF/FM Amplifier-Coupler is designed to provide strong VHF/UHF television and FM signals for small distribution systems. Two 75 ohm outputs are provided. Additional receivers may be connected into the system by using two-set couplers such as RCA 10G217.

The Amplifier-Coupler is designed to be mounted indoors, preferably in the attic or basement. Efficient solid state transistor circuitry amplifies the antenna signal voltage to overcome the inherent distribution system losses and provide strong black-and-white or color signals to the receivers. Special lightning protection circuitry, utilizing a low capacitance diode, effectively shunts induced voltage surges to ground to provide maximum protection to the solid state circuitry.

Typical Installation



Note 1: If separate VHF, UHF, or FM antennas are used, install proper RCA antenna transformer coupler in place of matching transformer.

Note 2: To connect additional receivers use RCA 2-set coupler.

Note 3: For VHF TV or FM receivers, use 10G215 matching transformer.

Note 4: For combination VHF/UHF/FM receivers use an RCA 10G225 or 10G234 Band Separator.

Specifications

Frequency Range
VHF Low Band: 54-88 MHz
VHF High Band: 174-216 MHz
UHF: 470-890 MHz
FM: 88-108 MHz

Input Impedance
75 ohms

Output Impedance
(2) 75 ohms

Gain (Average)
VHF/FM: 11 dB per output
UHF: 4 dB per output

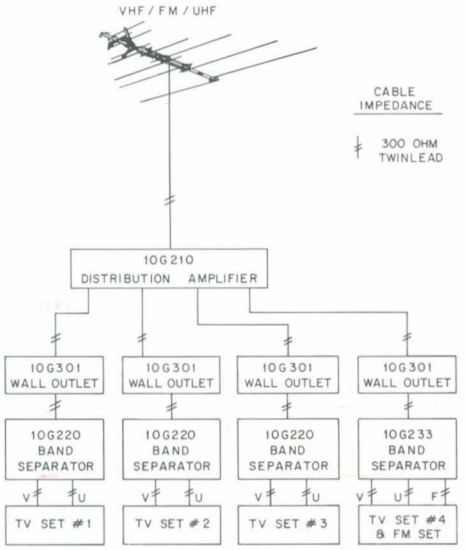
AC Power Input
120 volts AC, 60 Hz, 1.9 watts

Antenna System Accessories

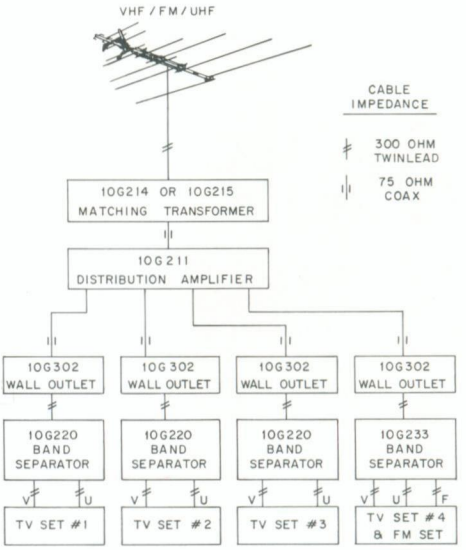
Typical Distribution Systems

Four Outlet Distribution Amplifier Systems

300 Ohm System

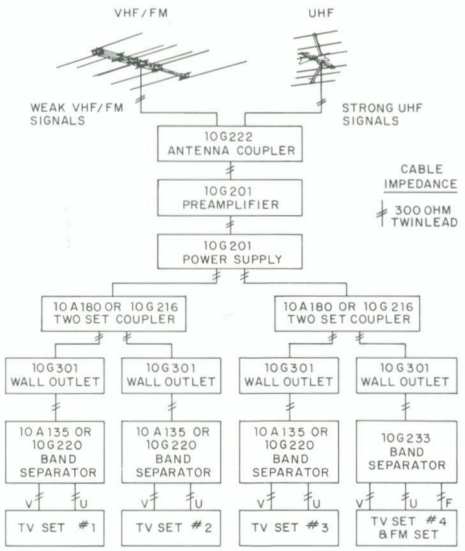


75 Ohm System

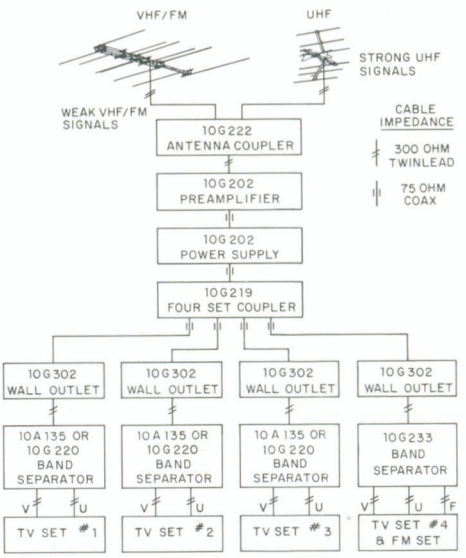


Four Outlet Preamplifier Systems

300 Ohm System



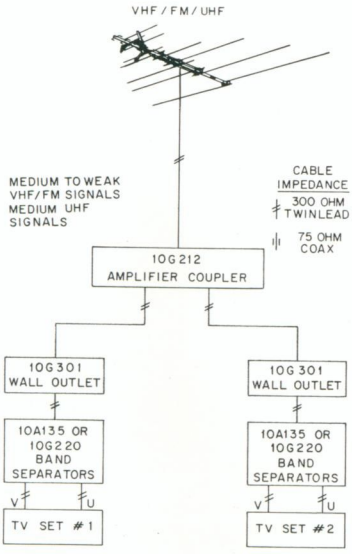
75 Ohm System



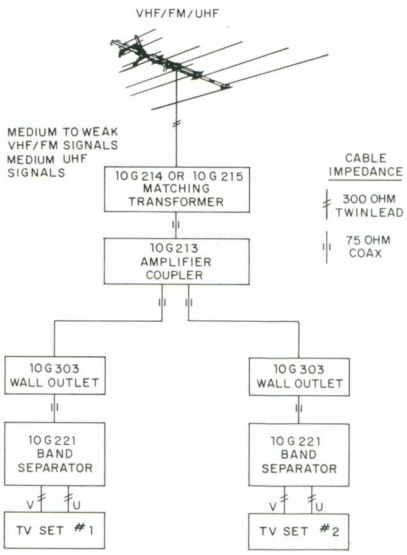
Typical Distribution Systems

Two Outlet Amplifier—Coupler Systems

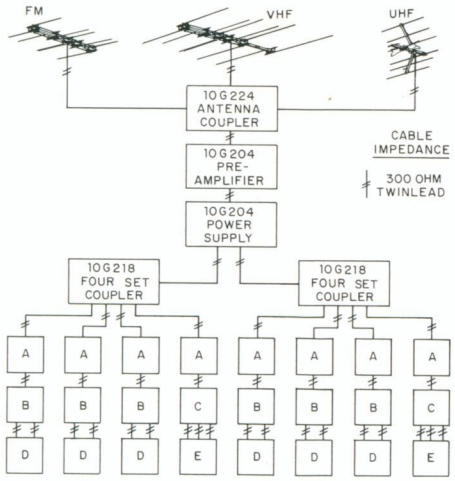
300 Ohm System



75 Ohm System

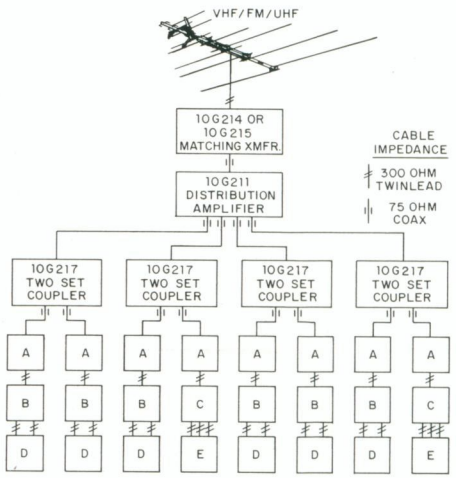


Eight Outlet Preamplifier System (300 Ohm)



A: 10G301 Wall Outlet.
B: 10A135 or 10G220 Band Separator.
C: 10G233 Band Separator.
D: TV or FM Set.
E: TV-FM Radio Combination Set or TV and FM Sets.

Eight Outlet Distribution Amplifier System (75 Ohm)



A: 10G302 Wall Outlet.
B: 10G220 Band Separator.
C: 10G233 Band Separator.
D: TV or FM Set.
E: TV-FM Radio Combination Set or TV and FM Sets.

Product Protection and Customer Appeal . . . RCA's New Packaging

Customer appeal . . . all passive devices, wall plates, and spare plugs are attractively packaged in blister packs to enhance customer appeal and stimulate sales. Preamplifiers and Distribution Amplifiers are packaged within heavy styrofoam cases to provide complete protection.

RCA

Antenna System Accessories