

# DIGITALCOM

## TA-DB75302C AGC Bi-directional Transmission

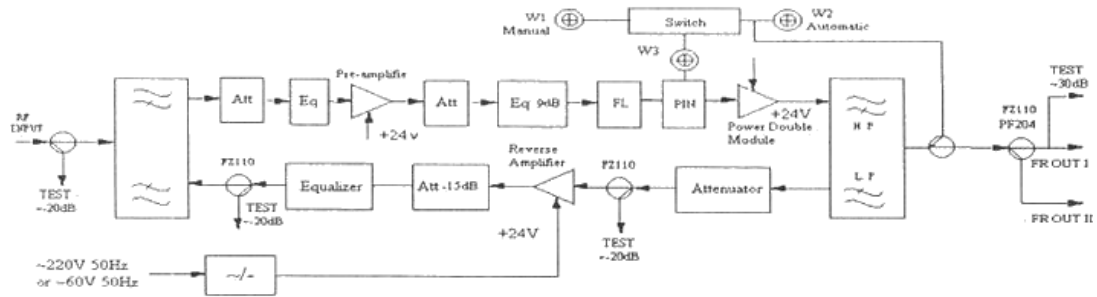
### Trunk Amplifier User's Manual

Suitable for bi-directional transmission (can be reserved) main trunk extended signal compensating. Forward channel is an import double module with an AGC control, and a low-noise pre-module, final-class being power doubler module are all MOTOROLA or PHILIPS' products. Output brancher or distributor can be plug changed. 1 input and 2 output are all with a over-current protection (switched by fuse). Front-back double-equalizer is used. Adjusting flatness in long-distance transmission is ingenious and convenient. Reliable switch power and strict anti-thunder system insure safe steady work in worse weather.

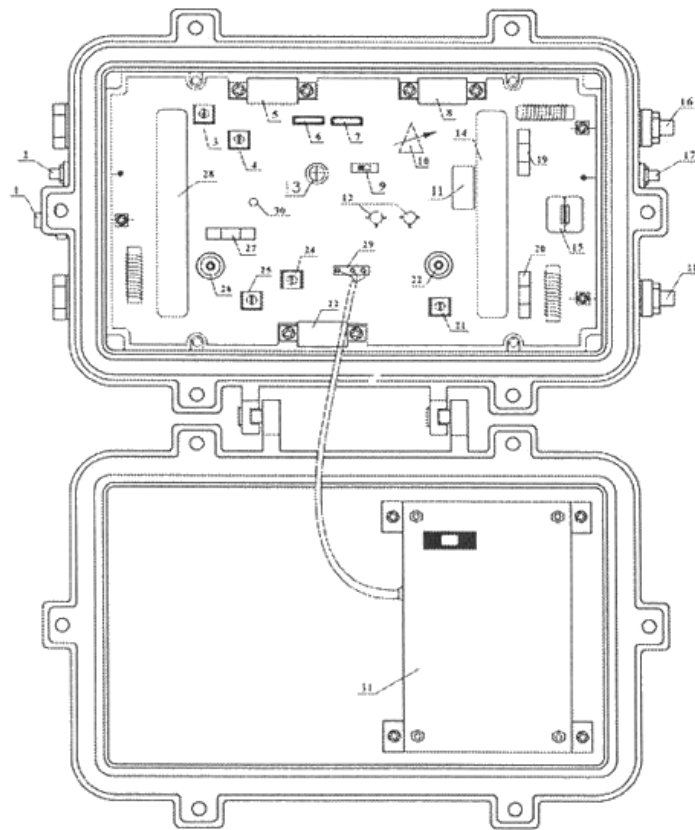
Function Parameter

Forward Transmission							
Frequency Range	MHz	45/87~862		45/87~750		45/87~550	
Rated Gain	dB	24	30	24	30	24	30
Flatness In Band	dB	±1		±0.75		±0.5	
Rated Input Level	dB μ V	72					
Rated Output Level	dB μ V	96	102	96	102	96	102
Gain Adjustable Range	dB	0~15					
Slope Adjustable Range	dB	0~24, 9dB is fixed equalizer					
AGC Lead Frequency	MHz	168.25 (or selected by user)					
AGC Response	dB	Input ±3 / Output ±0.3					
Noise Figure	dB	≤±12				≤±10	
Composite Triple Beat	dB	≥67	≥61	≥70	≥62	≥74	≥66
Composite Second Order	dB	≥64	≥60	≥66	≥62	≥68	≥64
Return Loss	dB	≥12		≥14		≥16	
Backward Transmission							
Frequency Range	MHz	5~30/65					
Flatness In Band	dB	≤±0.75					
Return Loss	dB	≥14					
Rated Gain	dB	0 or 20 selected					
MAX Output Level	dB μ V	≥110					
Gain Adjustable Range	dB	0~15					
Slope Adjustable Range	dB	0~10					
General Response							
Power Voltage(50Hz)	V	A: ~(130-265)V, B: ~(30-80)V (30W)					
Thunder Stroke	KV	5 (10/700 μ S)					

Principle Drawing:



Product Structure



- |                                     |                                    |
|-------------------------------------|------------------------------------|
| 1. RF Input                         | 20. Output Power Pass Fuse 2 (10A) |
| 2. Input Test Port: -20 dB          | 21. Reverse Variable ATT1          |
| 3. Forward Variable ATT             | 22. Reverse RF Test Port -20dB 1   |
| 4. Forward Variable ATT             | 23. Reverse RF Amplifier Module    |
| 5. Forward Push-pull Amplify Module | 24. Reverse Variable EQ            |
| 6. Forward Fixed ATT                | 25. Reverse Variable ATT2          |
| 7. Forward Fixed EQ                 | 26. Reverse RF Test Port -20dB 2   |
| 8. Forward Power Double Module      | 27. Output Power Pass Fuse (10A)   |
| 9. AGC/MGC                          | 28. Dual-Filter                    |
| 10. AGC Control Unit                | 29. Main-board Power Supply Input  |
| 11. AGC Filter                      | 30. Power LED                      |
| 31. Power Supply Switch             |                                    |