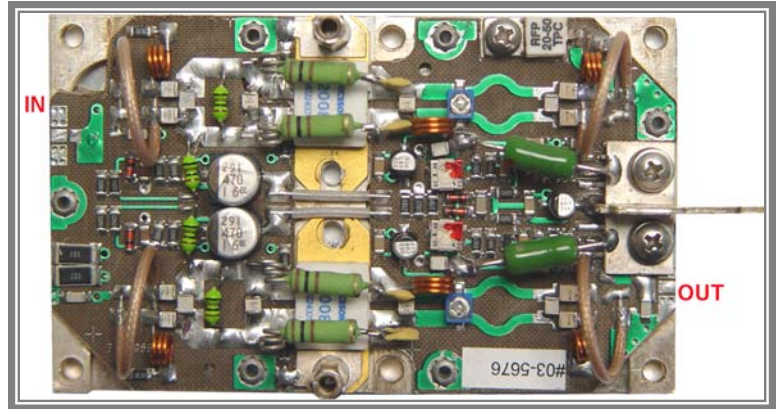


TECHNICAL INFORMATION

Designed for TV transposers and transmitters, this amplifier incorporates microstrip technology and discrete linear push-pull transistors with gold metallization and diffused emitter ballast resistors to enhance ruggedness and reliability.



- ◆ 470 - 860 MHz
- ◆ 25.5 Volts
- ◆ Input/Output 50 W - 50 W
- ◆ Pout : 50 W
- ◆ Gain : 18 dB min
- ◆ Class A

TECHNICAL SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS (T case = 25° C)

Parameter	Value	Unit
Collector voltage supply	26.5	V dc
Current Supply	14	A dc
Storage Temperature Range	-30 + 100	°C
Operating Temperature	-20 + 55	°C

ELECTRICAL SPECIFICATIONS (T case = 25° C, 50W loaded, Vs = 26 V, Is = 13A)

Parameter	Test Conditions	Value			Unit
		Min	Typ.	Max U	
Bandwidth	Pout = 50 W (CW)	470		860	MHz
Power gain	Pref = 50 W (CW), 3 tones			11	dB
Power Output @ 1dB Compression	Referred to Pout = 50 W	50			W
Supply Current	Pout = 50 W (CW)		10		A
Input Return Loss	Pout = 50 W (CW)	16	18		dB
Output Return Loss	Pout = 50 W (CW)	16	20		dB
Load mismatch	Pref = 50 W, 3 tones, f= 860MHz, load VSWR = ȳ:1, alla phase angles	No degradation in Pout			
Gain Flatness	Pref = 50 W, 3 tones, BW: 470-860MHz		±0.4	±0.6	dB
Intermodulation Distortion - 3 tones (IMD 1)	Vision carrier: -8 dB f = 860 MHz Sound carrier: -7 dB Vs = 26V Sideband carrier: -16 dB Pref = 50 W		-52	-50	dBc
Intermodulation Distortion - 3 tones (IMD 2)	Vision carrier: -8 dB f = 860 MHz Sound carrier: -10 dB Vs = 26V Sideband carrier: -16 dB Pref = 50 W		-54		dBc