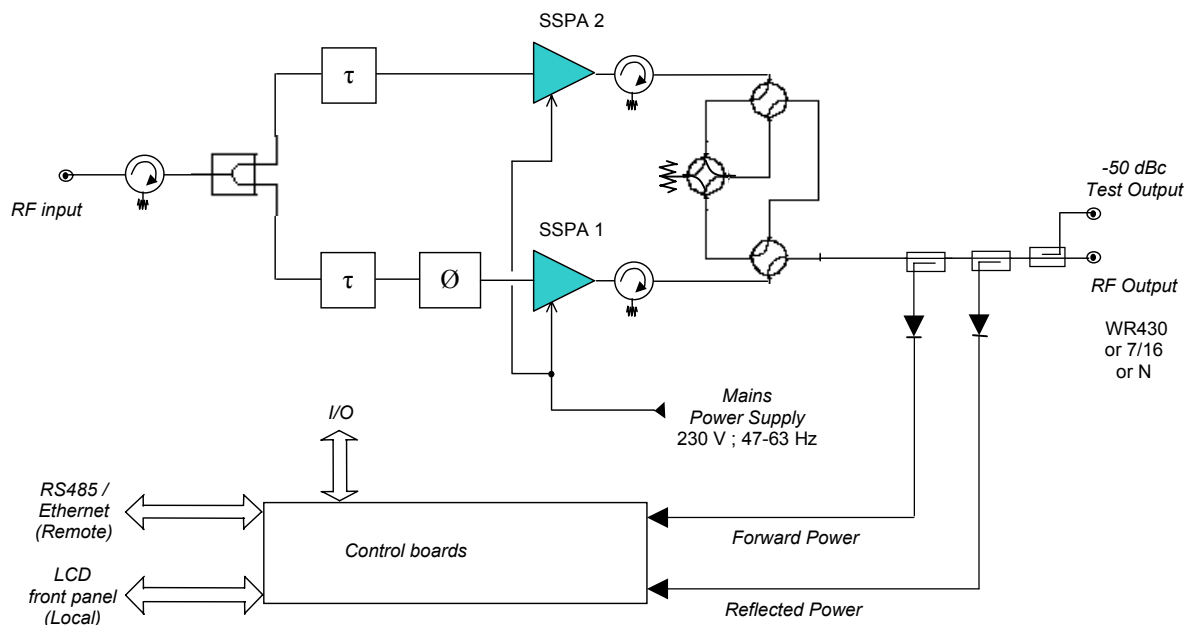


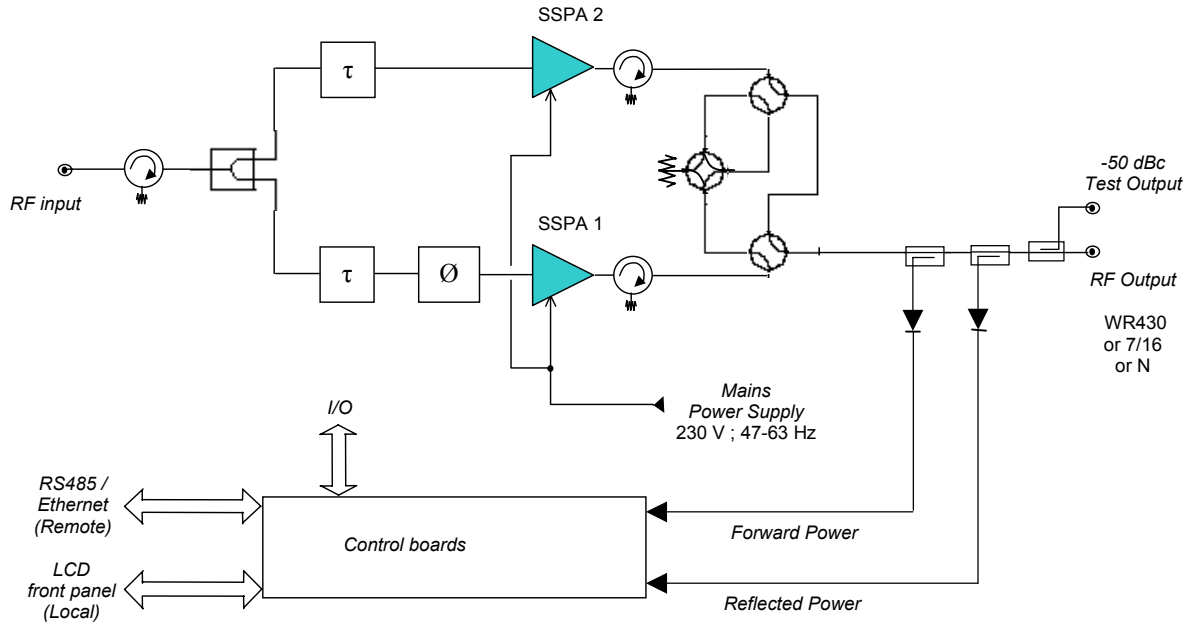
400W REDUNDANT / 800W PHASE COMBINED SOLID STATE POWER AMPLIFIER S BAND FOR SATCOM (2 x RF20252120 - 400A)

- **450W Saturated Output Power in 1:1 Redundant Mode**
- **900W Saturated Output Power in Phase Combined Mode**
- **Standard cabinet (19" x 42U x 0.8 m)**
- **Weight ≤ 260 kg**
- **58 dB minimum gain (25 dB adjustment)**
- **Fully remote control by Ethernet (fix IP number) or RS485**
- **-50 dBc RF output sample port**
- **2U main power supply drawer**
- **Temperature protection**
- **Front panel monitoring (LCD display) and control**
- **MTBF > 112 000 hours**

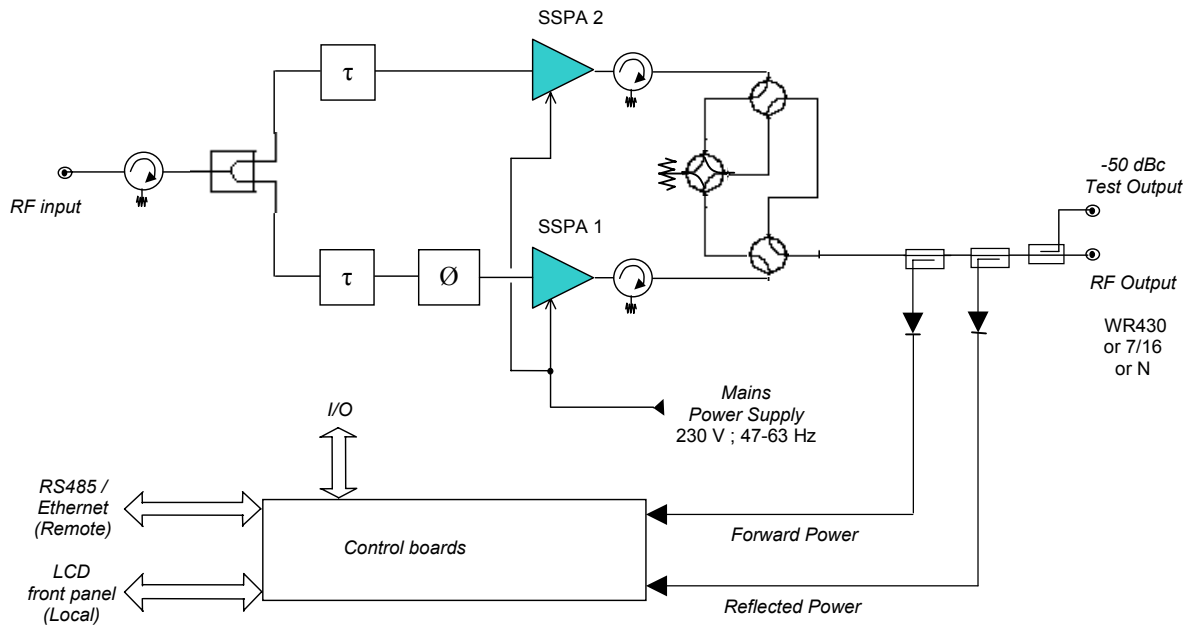
Redundant Mode with SSPA 1 On-line



Redundant Mode with SSPA 2 On-line



Phase Combined Mode with both SSPAs On-line



RF20252120 - 400A Specifications

Characteristics	Data	Units
Frequency range	2025 - 2120	MHz
RF output power CW at 1 dB compression		
Typ.	450	W
Min.	400	W
Class	A	
Power gain min.	58	dB
Gain variation in band	< +/-1	dB
Gain variation slope	< +/- 0.05	dB / MHz
Gain stability after warm up	< +/- 0.5	dB / 24H
In / Out impedances nom.	50	Ohms
Input VSWR	1.25 : 1	
output VSWR	1.35 : 1	
Load VSWR for rated output power	up to 1.5 : 1	
AM/PM residual	Comply with IESS308/309	
Protection circuits	Load VSWR, overtemperarure	
Harmonics typ.	-60	dBc
Spurious typ.	-60	dBc
Noise in bandwidth (TX) (full gain)	< -84	dBW / 4 kHz
Intermodulation (for 10 dB total Back off)	< -40	dBC
Input gain control	over 25	dB
Noise Figure typ.	10	dB
Intercept point 3 rd Order min.	66	dBm
RF connectors in/out	7/16 female	
Cooling	Forced air (self-contained fans)	
Humidity	up to 85	%
Operating temperature Range	+10 °C ... + 35	° C
Altitude	2000	m
Power Supply	230 AC or 380 V ** +/- 10 %, 47-63 Hz	V
Power consumption max.	4000	VA
Group delay (per 40 MHz segment)	Linear : 0.03 Parabolic : 0.003 Ripple : 1.0	ns/MHz ns/MHz ² ns p-p
Phase noise	10 Hz <-90 100 Hz <-95 1 kHz <-110 10 kHz <-120 100 kHz <-125 1 MHz <-130	dBc/Hz dBc/Hz dBc/Hz dBc/Hz dBc/Hz dBc/Hz
Monitoring & Control	Local : Front panel LCD/Keyboard (2U) Remote : RS485 / Ethernet / E-mail alarms messenger	
All data at room temperature + 22 °C, into 50 Ohms, subject to change without notice		

** upon request