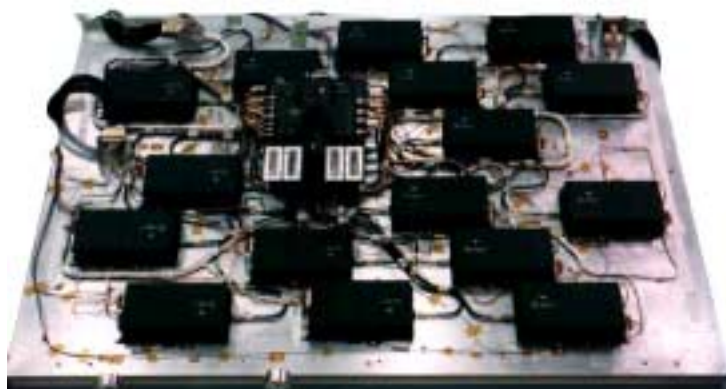


S-Band Multi-Port Amplifier (MPA) System



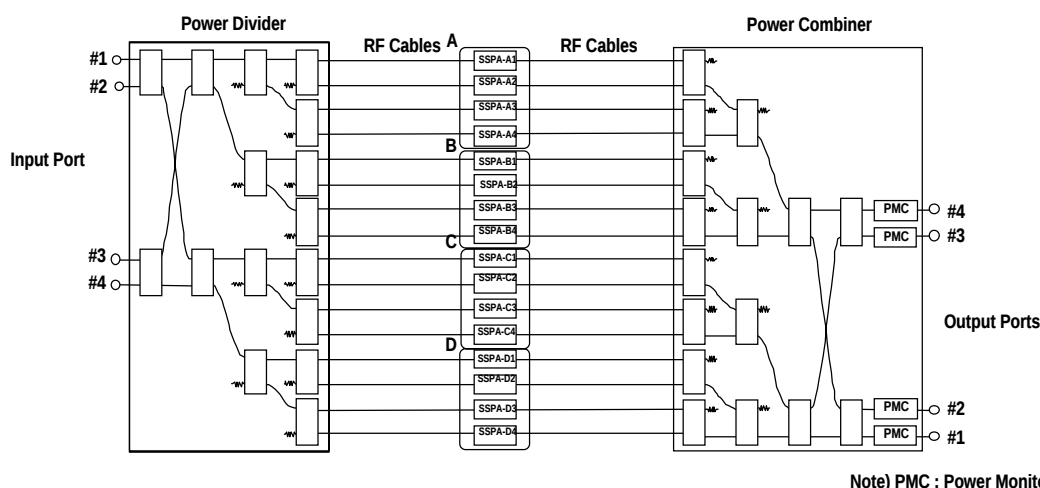
Features

- High RF output power with parallel SSPA operation
- 4 inputs and 4 outputs
- SSPA redundancy capability

Heritage

- N-STAR a/b
- MTSAT (L-Band)

Block Diagram



Performance Summary

<u>Items</u>	<u>Description</u>	<u>Remarks</u>
Operating Frequency Band (GHz)	2.5	
Maximum Input Power (dBm)	+ 1.0	@normal operating condition
Overdrive Capability	20dB grater that max. input power	
Rated RF Power Output (dBm)	> +51.1	129w
Gain (dB)	> 50.1	@ rated RF output power
Gain Flatness (dBp-p)	< 0.8	
Gain Slope (dB/MHz)	< 0.17	
Noise Power Ratio (dB)	> 18.2	@rated RF output power
Output Port Isolation (dB)	> 21.0	
DC Input Power (w)	< 1,036	@rated RF output power
Input Return Loss (dB)	> 17.7	
Output Return Loss (dB)	> 19.0	
Input Connector	SMA (Female)	
Output Connector	Waveguide ^{*1}	^{*1} : I.D.=86.36 x 21.59