

C-Band Solid State Power Amplifier
(30-40w Class SSPA)



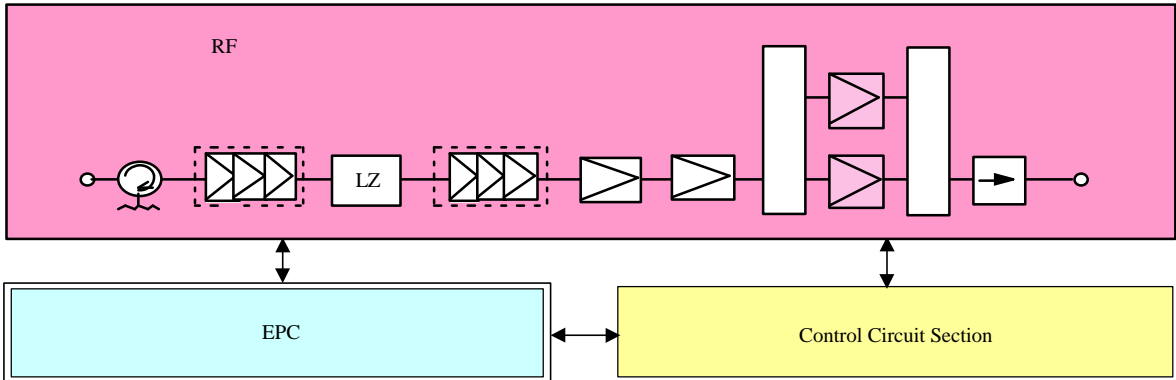
Features

- Small size by F-MIC Technology
- High linearity by FET Linearizer
- High efficiency by Internal matched MESFET
- High power by low loss power combiner
- Optimized temperature compensation by PROM

Heritage

- INTELSAT IX
- EXPRESS

Block Diagram



Performance Summary

<u>Items</u>	<u>Description</u>	<u>Remarks</u>
Operating Frequency Range	350MHz band over 3.4 - 4.2 GHz	
Nominal Gain	83 dB	@P2dB
Rated Output Power	up to 40 Watts	@P2dB
Overdrive Capability	up to +15 dBm	
Gain Control	Total 34 dB/ 1 dB step	Gain Status TM is available
NPR	14.5dB	@-3dB IBO
Efficiency	37% minimum	@P2dB
Mass	1.5 kg nominal	
Life	15 years	