

This new SGS-THOMSON product line includes miniature hybrid power amplifier modules for digital cellular radio and other communications applications in the 800 - 960 MHz frequency range as well as SATCOM and other communications applications in the 1.0 - 2.0 GHz frequency range. Additional modules for these and other applications are being introduced on a regular basis.

800-960 MHz CLASS AB HYBRID POWER MODULES, MOBILE & HANDHELD APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	GAIN MIN. (dB)	η_C MIN. (%)	V _{CC} (V)	PACKAGE STYLE
STM872-20 [†]	806-870	20.0*	19	30	12.5	H120
TSTM850-10 [†]	824-849	4.0 (linear)	35	25	12.5	H121
STM915-14	890-915	14 (P _{1dB})	41.5	35	12.5	H100

[†]In Development

*Class C

860-960 MHz CLASS AB HYBRID POWER MODULES, BASE STATION APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	GAIN MIN. (dB)	η_C MIN. (%)	V _{CC} (V)	PACKAGE STYLE
STM901-30	860-900	31.6 (PEP)	36	27**	26	H141
STM961-15	915-960	16 (P _{1dB})	28	32	26	H110
TSTM961-25 [†]	915-960	20 (P _{1dB})	27	30	26	H110

[†]In Development

**Two-Tone test; 20KHz separation

1.0 - 2.0 GHz CLASS C HYBRID POWER MODULES

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	GAIN MIN. (dB)	η_C TYP. (%)	V _{CC} (V)	PACKAGE STYLE
STM1645-10	1625-1665	10	30	35	28	H150
STM1645-30	1625-1665	30	35	35	28	H160