

This new SGS-THOMSON product line includes miniature hybrid power amplifier modules for digital cellular radio and other communications applications in the 300 - 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.

300-500 MHz CLASS AB LINEAR POWER MODULES, WLL APPLICATIONS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN. (W)	GAIN MIN. (dB)	η_C MIN. (%)	V _{CC} (V)	PACKAGE STYLE
STM400-05A	300-350	2.25 W (PEP)	21	12	20	H170
STM400-05B	340-390	2.25 W (PEP)	21	12	20	H170
STM400-05C	380-430	2.25 W (PEP)	21	12	20	H170
STM400-05D	420-470	2.25 W (PEP)	21	12	20	H170
STM400-05E	460-500	2.25 W (PEP)	21	12	20	H170

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
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	30 (PEP)	35	26**	26	H141
STM961-15	915-960	16 (CW)	28	32	26	H110
STM961-25	915-960	20 (CW)	28	30	26	H110
STM962-15	915-960	16 (CW)	28	32	26/15	H110
STM963-15	915-960	16 (CW)	28	32	26	H111

**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 MIN. (%)	V _{CC} (V)	PACKAGE STYLE
STM1645-10	1626-1662	10	30	30	28	H150
STM1645-30	1626-1662	29	35	35	28	H160