

PRECISION POWER ANALOG PRODUCT REFERENCE GUIDE FOR MISSILE APPLICATIONS



SILICON CARBIDE INTEGRATED POWER MODULES

Model	Supply Voltage max (V)	Output Current peak within SDA (A)	Output Current continuous within SDA (A)	Switching Frequency (kHz)	Power Dissipation (W)	Package
SA111	650	80	32	1000	56	52-pin Power Quad (PQ)
SA310	650	80	30	400	111	16-pin Power DIP (KR)
SA110	400	40	28	400	89	12-pin PowerSIP (DP)

“M/883” AND “M” GRADE LINEAR AMPLIFIERS

Model	Supply Voltage max (V)	Output Current continuous (PEAK) within SDA (A)	Power Bandwidth k(Hz)	Slew Rate (V/μs)	Power Dissipation (W)	Quiescent Current max (mA)	Package
PA85M	450	.2	300	1000	30	25	8-pin TO-3 (CE)
PA84M/883	300	0.04 (0.05)	250	200	17.5	7.5	8-pin TO-3 (CE)
PA83M/883	300	0.075 (0.1)	60	30	17.5	8.5	8-pin TO-3 (CE)
PA08M/883	300	0.15 (0.2)	90	30	17.5	8.5	8-pin TO-3 (CE)
PA07M/883	100	5	18	5	67	30	8-pin TO-3 (CE)
PA10M/883	90	5	15	3	67	30	8-pin TO-3 (CE)
PA12M/883	90	10 (15)	20	4	125	50	8-pin TO-3 (CE)
PA61M/883	90	10	16	2.8	97	10	8-pin TO-3 (CE)
PA09M/883	80	4.5 (5)	150	220	78	85	8-pin TO-3 (CE)
PA51M/883	72	10	16	2.6	97	10	8-pin TO-3 (CE)
PA73M/883	60	5	23	2.6	67	5	8-pin TO-3 (CE)
PA74M	40	2.5 (2 channels)	13.6	1.4	36 per channel/60	40	8-pin TO-3 (CE)
PA02M/883	38	5	350	20	48	40	8-pin TO-3 (CE)

RADIATION TOLERANT TESTING CAPABILITIES

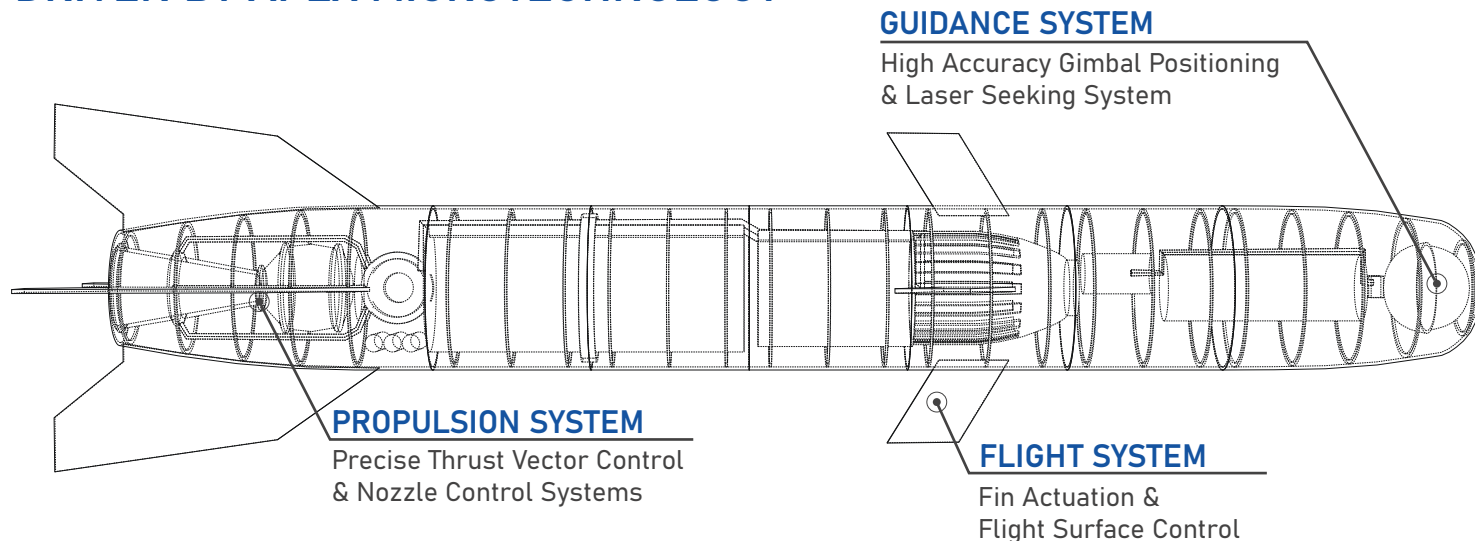
Apex Microtechnology's radiation tolerant “R” grade devices are specifically built and tested to maintain operability after exposure to certain levels of radiation. Apex radiation tolerant devices include radiation characterization data for TID (HDR & ELDRS) and SEE as well as device lot traceability documentation and reporting.

For more information about Apex radiation tolerant “R” grade devices or for additional radiation testing options & capabilities offered by Apex please contact your local Apex sales representative.



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MISSION CRITICAL SYSTEMS DRIVEN BY APEX MICROTECHNOLOGY



SILICON CARBIDE INTEGRATED POWER MODULES

Apex Microtechnology offers a dedicated range of integrated power modules that feature rugged hi-rel packaging, a compact footprint, and exceptional power density, all converging to redefine the cutting edge of integrated power modules. Apex is seamlessly integrated into propulsion, flight control, and guidance systems by providing commercial off-the-shelf analog solutions that meet the size, weight, and power (SWAP) requirements from the industry.

Specification Parameter	SA111	SA310	SA110
Output Current Continuous	32A	30A	28A
Output Current PEAK	80A	80A	40A
Supply Voltage Operation	650V	600V	400V
Internal Power Dissipation	56W	111W	89W
Output Architecture	Single-Phase	3-Phase	Single-Phase
Switching Frequency	1MHz	400kHz	400kHz
Package Style	52-pin QFP, Surface Mount	16-pin KR, Power DIP	12-pin DP, Power SIP



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