

AIS-gPPT3-1C INTEGRATED PROPULSION MODULE V3 BILL OF MATERIALS

Circuit Designation	Part Description	Manufacturer	Supplier	Supplier #	Cost	Quantity	Total
IC1	High Side Single Channel IC Load Switch	Texas Instruments	Digikey	296-29758-1-ND	\$ 4.09	1	\$4.09
HV1	EMCO Q20-5 0.5W 2kV DC-DC Boost Supply	XP Power	Digikey	1470-33335-ND	\$203.28	1	\$203.28
D1, D2	1.2kV SiC Schottky Diode D0-214AA SMB	GeneSiC Semiconductor	Digikey	1242-1169-1-ND	\$ 3.46	2	\$6.92
R1, R2	10M, High Voltage Pulse Withstanding Resistor SMT 2512	Stackpole Electronics	Digikey	HVCB2512FKC10M0CT-ND	\$ 3.56	2	\$7.12
R3	12M, High Voltage Resistor SMT 2512	Vishay Dale	Digikey	CRHV12.0MECT-ND	\$ 3.82	1	\$3.82
R4, R6	1G High Voltage Pulse Withstanding Resistor SMT 2512	Vishay Dale	Digikey	CRHV1.00GECT-ND	\$ 3.91	2	\$7.82
R5	6.8M High Voltage Resistor SMT 1210	Rohm Semiconductor	Digikey	RHM1180CT-ND	\$ 0.44	1	\$0.44
R7	1.5M High Voltage Resistor SMT 1210	Rohm Semiconductor	Digikey	RHM1065CT-ND	\$ 0.44	1	\$0.44
R8	10K SMT Resistor 1206 SMT	Stackpole Electronics	Digikey	RNCF1206TKY10K0Ct-ND	\$ 2.33	1	\$2.33
R9	4.3K SMT Resistor 1206 SMT	Panasonic Electronic Components	Digikey	P4.3KCTCT-ND	\$ 1.70	1	\$1.70
C1, C2	2kV 0.068uF KEMET MLCC	KEMET	Digikey	399-13342-1-ND	\$ 43.15	2	\$86.30
C3	1250V 0.1uF KEMET MLCC	KEMET	Mouser	80-C4540H104KUGWCT1	\$ 36.49	1	\$36.49
C4	0.1uF SMT Ceramic Capacitor SMT 1206	TDK Corporation	Digikey	445-14655-1-ND	\$ 0.88	1	\$0.88
SCR1	800V Sensitive Gate SCR	WeEn Semiconductor	Digikey	1740-1095-1-ND	\$ 0.85	1	\$0.85
TX1	12kV Vertical Mount Trigger Coil	Xenon Flash Tubes	Xenon Flash Tubes	PFT-1052V	\$ 6.35	1	\$6.35

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