HDL Research Lab Inc

Fact Sheet

Design, Engineer, and Manufacture of Power Supplies for Military & Aerospace Applications

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Facility Introduction	the military and aerospace sectors	 Capabilities range from 1 Vdc 	and power distribution units (PDUs) primarily for to 25 KVdc and 100 microwatts to 25 KW
	at -55°C to +100°C. While the type configuration, the custom option at	pical application involves simply to fords system designers the free BD. competitive second sourcing	the organization of proven circuitry into a given dom to forge the future out and beyond to replacement. HDLs flexibility.
History & Company Goals & Philosophy of	technology for down-hole exploration industry, the firm focused on the des class customer service and support.	n use to temperatures of +260°C. ign & manufacture custom power HDL was awarded the 1987 Smal plier business from market leader	tured into a leading supplier of specialized power Diversified in 1984 with the transition to the defense supplies. Broadening its expertise to include world-I Business Subcontractor of the Year award for s such as Boeing McDonnell Douglas, BAE Systems,
Small Business	Outstanding Small Bus. Provider, 20 Raytheon SAS 4 Star Excellence, 20	10 Raytheon Enterprise PSL, 201 112 Raytheon SAS 3 Star Exceller	3 Star Excellence; 2009 Lockheed Martin MFC-Orl 0 Raytheon Missile 4 Star Excellence, 2011 ice and 2014 Raytheon IDS 4 Star Excellence. quality and technical excellence. The firm maintains
	a loyal client base and encourages e of innovative business ideas increas	early involvement. HDLs ongoing ones the value delivered to our custon	commitment to the development and implementation mers on a regular and recurring basis.
Engineering Dept Technical Expertise	to achieve maximum functionality of Spice TM and Algor TM to model design and CAD tools to prepare the engiedge designs, leveraging from presupports a wide variety of enginee	& versatility. Experienced, experigns, interactive tools such as a neering drawings and associated vious experience, to assure the liring data items from design analyses.	•
Manufacturing Concept, Capability, Organization, Surge	deliver end-item quality per the sch HDLs cellular cross-functional production flow is circular, allowing Soldering Program requires all per technology production practices per technology production practices per HPC7711/7721 Certification for rew magnetics per MIL-T-27 are availa printer, Automated Optical Inspect to-run process controlled high-rate manufacturing and given an opera	nedule in its application of SWAF duction teams manage pilot produgies. Hand, Displacement, Wave 100% in-process inspection at sonnel to be thoroughly trained are ANSI/J-STD-001 Class 3 and work/repair requirements. An inteble. Organic automation is achion System, and three Dynapert production. Surge requirements ting density saturation of only 55	n, astute planning, and a primary dedication to RM manufacturing and LEAN techniques. luction through spares efforts for through hole, we and IR Reflow soldering techniques are used. key manufacturing stages. The High Reliability and educated in proper quality electronics IPC-A-610 Class 3. HDL maintains rnal magnetics cell assures custom production eved using an 11-Zone Cyclonic IR Oven, screen SMD pick-&-place machines that provide readyscan be easily accommodated using SWARM 5% of resources.
Testing Program & Capabilities	qualification test & production test assures the highest deployed end-three high speed NH Research 56 and DC sources affording efficient TS124 Test Station. HDL also has inspection. Test Types: Acceleration, Altitude,	supports the need to offer client item reliability with the least sch 00 series, 6-station Automated F throughput and SPC process/cii an X-Tek XTV-130 Real-time x-EMI/EMC, Humidity, Immersion	ted EMI/EMC lab for engineering development, s test program tailoring. Internal ESS testing edule risk. Acceptance testing is supported by Power Supply test systems with programmable AC rouit monitoring. In Circuit Test by Teradyne ray system for root cause analysis and LCC
Tip Whicker	Temperature/Humidity, Temperatu Screening.	re-Shock, Vibration-Sinusoidal,	re/Altitude, Temperature-High, Temperature-Low, Vibration-Random, and Environmental Stress
Tin Whisker Risks	assessment üsing a HiSpex Maxxi	XRF machine for receiving insp	mpliant risk management program which includes ection and tin whisker risk mitigations.
Obsolescence Program		and improve the accuracy of mat	mitigate obsolescence risks for new and on-going terial and parts shortage forecasts using a three- uisition Guidelines.
Quality Assurance	element into all aspects of HDLs b company and its suppliers. Online Quality Management combine in a	usiness creates an environment intranet tools, Statistical Proces core system meeting the most of	•
_	10x power to assure tireless consi	stency for component type, value	c AOI (Automatic Optical Inspection) System at e, polarity, placement, and workmanship defects.
Previous Service	LCS, SeaRAM, HARM, AARGM, HC MREO & LREO, SAS-ISP, DDG-UP SCAMP, FOT, AN/ALQ-22, ROTHF GBU15/AGM-130, C-17 CAWS, Hai	SM, F-16 PDU, MTS CSP, EPLR S, NMT-ACM, CIRCM, AN/TPQ R, BCTM GCV, SMART-T, Skygua rpoon MK105 & MK 78, MK-84, M 156, MDR/HDR, Super Cobra, Rai	M, Adv-AEHF, MILSTAR, PHALANX, RAM, ATRU, S, E2 TARA, LAV-AT, E2D Hawkeye, FCS NLOS, -36/37 Sentinel/Firefinder, AGMS-PCU, JATAS, rd, EA-6B UEU, Big Safari, AN/WSC-6, JTCTS, K 86, MK 125, Sparrow, Trailblazer, IEWCS, AN/TPS-il Garrison, Pacerlink II, Digital MAD, B-52, F-14,
Plant Location	Brenham, Texas, 74 miles NW of H	louston, 90 miles SE of Austin, Fa	cility size: 88,000 Sq. Ft., One Location. Rev 12-31-15