

**DLA Land and Maritime - VQ  
Supplemental Information Sheet for Electronic QPL-1**

Date: 10/13/2011

**Specification Details:**

Specification: MIL-PRF-1  
 Title: Electron Tubes  
 Federal Supply Class (FSC): 5960  
 Conventional: Yes  
 Specification contains quality assurance program: No  
 MIL-STD-790 Established Reliability & High Reliability: No  
 MIL-STD-690 Failure Rate Sampling Plans & Procedures: No  
 Weibull Graded: No  
 Specification contains space level reliability requirements: No  
 Specification allows test optimization: No

**Contact Information:**

Office of Primary Involvement: Electronic Devices Branch, DLA Land and Maritime - VQE  
 Primary Qualifying Activity Contact: 614-692-0625, e-mail: vqe.rp@dla.mil  
 Secondary Qualifying Activity Contact: 614-692-7527, e-mail: vqe.rm@dla.mil

**Notes:**

1/ Company has issued an end of life buy notice for these devices; contact manufacturer for further information.

**Part Configuration:**

Refer to performance specification sheets.

**PART LISTINGS**

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFICATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
DOD-004	BTR-141	1-950-75	/1701	CPI (Beverly Microwave Division)
DOD-018		GE/DOD-018, 19 Jan 73	/1727 (Navy)	MPD, Inc.
DOD-031	VMX-1136	Varian Test Rpt, Dec 73	/1753	CPI (Beverly Microwave Division)
DOD-032	VMX-1135	Varian Test Rpt, Dec 73	/1754	CPI (Beverly Microwave Division)
DOD-033	VMX-1134	Varian Test Rpt, Dec 73	/1755	CPI (Beverly Microwave Division)
DOD-041		1-764-79	/1771	MPD, Inc.
DOD-042	VMX-1900	1-509-89	/1773	CPI (Beverly Microwave Division)
DOD-042		1-533-90	/1773	L-3 Communications Electron Devices
1B23	VRP-1B23	N-3546	/21	CPI (Beverly Microwave Division)
1B24A	VRP-1B24A	1-950-75	/609	CPI (Beverly Microwave Division)
1B27	VRP-1B27	N-3432	/208	CPI (Beverly Microwave Division)
1B35A	VRP-1B35A	1-1203-69	/22	CPI (Beverly Microwave Division)
1B37A	VRP-1B37A	1-1203-69	/22	CPI (Beverly Microwave Division)
1B58A	VRP-1B58A	1-651-77	/970	CPI (Beverly Microwave Division)
1B63A	VRP-1B63A	1-685-74	/26	CPI (Beverly Microwave Division)
2AP1A		1-138-60	/588	Lexel Imaging Systems, Inc.
2BP1		1-115-60	/272	Lexel Imaging Systems, Inc.
2BP11		1-115-60	/272	Lexel Imaging Systems, Inc.
2C40A 1/		1-495-78	/868	MPD, Inc.
2C53		1-944-74	/334	M. U. Inc.
2J50		1-481-93	/945	L-3 Communications Electron Devices
2J51A		1-482-93	/846	L-3 Communications Electron Devices
2J55		1-480-93	/297	L-3 Communications Electron Devices
3ACP1A		ASESA-21073	/311	Lexel Imaging Systems, Inc.
3ACP2A		ASESA-21073	/311	Lexel Imaging Systems, Inc.
3ACP7A		ASESA-21073	/311	Lexel Imaging Systems, Inc.
3ADP1		1-209-60	/974	Lexel Imaging Systems, Inc.
3ADP2		1-209-60	/974	Lexel Imaging Systems, Inc.
3ADP7		1-209-60	/974	Lexel Imaging Systems, Inc.
3ADP11		1-209-60	/974	Lexel Imaging Systems, Inc.
3BP1A		NYNSML 5032 A-A1-513	/594	Lexel Imaging Systems, Inc.
3D21WB		1-376-77	/1336	M. U. Inc.

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GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFICATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
3DP1A		1-64-79	/385	Lexel Imaging Systems, Inc.
3DP1A+S2		1-64-79	/385	Lexel Imaging Systems, Inc.
3FP7A		1-867-62, 1-158-61 NYNSML-5032-B-15.97	/590	Thomas Electronics, Inc.
3JP11		1-21-59	/36	Lexel Imaging Systems, Inc.
3JP12		ASESA Rpt 1-8-58	/36	Lexel Imaging Systems, Inc.
3JP1		ASESA Rpt 1-8-58	/36	Lexel Imaging Systems, Inc.
3JP2		ASESA Rpt 1-5-58	/36	Lexel Imaging Systems, Inc.
3JP7		ASESA Rpt 1-8-58	/36	Lexel Imaging Systems, Inc.
3KP1		ASESA Rpt 1-1-58	/501	Lexel Imaging Systems, Inc.
3WP1		N3989	/267	Lexel Imaging Systems, Inc.
3WP1		1-867-62	/267	Thomas Electronics, Inc.
3WP2		1-536-65	/267	Lexel Imaging Systems, Inc.
4DP7		1-1392-77	/1006	Lexel Imaging Systems, Inc.
4MP1		Rpt 62ABDF1	/1296	Lexel Imaging Systems, Inc.
4MP1		Rpt Nr 9, 10/8/62	/1296	Thomas Electronics, Inc.
4QP2		Rpt 62ABDF4, 22 May 62	/1386 (Navy)	Lexel Imaging Systems, Inc.
5ADP1		1-139-60	/689	Lexel Imaging Systems, Inc.
5ADP1		1-158-61	/689	Thomas Electronics, Inc.
5ADP2		1-140-60	/689	Lexel Imaging Systems, Inc.
5ADP2		1-158-61	/689	Thomas Electronics, Inc.
5ADP7		1-141-60	/689	Lexel Imaging Systems, Inc.
5ADP7		1-158-61	/689	Thomas Electronics, Inc.
5ADP14		1-140-60	/689	Lexel Imaging Systems, Inc.
5ADP14		1-158-61	/689	Thomas Electronics, Inc.
5AFP1		ASESA-21199	/1048	Lexel Imaging Systems, Inc.
5AFP7		ASESA-21199	/1048	Lexel Imaging Systems, Inc.
5AMP1A		BD-2, 25 Oct 60	/1339 (Navy)	Lexel Imaging Systems, Inc.
5AMP1A		1-018-00	/1339 (Navy)	Thomas Electronics, Inc.
5AMP2A		BD-2, 25 Oct 60	/1339 (Navy)	Lexel Imaging Systems, Inc.
5AMP7A		Nr ABD-2, 25 Oct 60	/1339 (Navy)	Lexel Imaging Systems, Inc.
5AMP11A		Nr ABD-2, 25 Oct 60	/1339 (Navy)	Lexel Imaging Systems, Inc.
5AWP2		ASESA-21091A	/810	Lexel Imaging Systems, Inc.
5BCP7		1-82-78, 1-3-61	/1065	Lexel Imaging Systems, Inc.
5BCP7		1-8-62	/1065	Thomas Electronics, Inc.
5BP1A		NYNSML 5032-A-A1.525	/592	Lexel Imaging Systems, Inc.
5CP1A		NYNSML 5032-A-A1.140	/273	Lexel Imaging Systems, Inc.
5CP1B		5922 (USASESA)	/273	Lexel Imaging Systems, Inc.
5CP7A		NYNSML 5032-A-A1.456	/273	Lexel Imaging Systems, Inc.
5CP11A		NYNSML 5032-A-A1.457	/273	Lexel Imaging Systems, Inc.
5CP11B		1-4-61	/273	Lexel Imaging Systems, Inc.
5CP12		1-5-61	/273	Lexel Imaging Systems, Inc.
5FP7A		N-3764, 1-1199-70	/1392	Lexel Imaging Systems, Inc.
5FP7A		1-390-63	/1392	Thomas Electronics, Inc.
5FP14A		1-277-59	/1392	Lexel Imaging Systems, Inc.
5FP25		1-523-63	/1392	Lexel Imaging Systems, Inc.
5HP1A		N-3735	/592	Lexel Imaging Systems, Inc.
5LP1A		A-1765	/275	Lexel Imaging Systems, Inc.
5LP5A		1-130-61	/275	Lexel Imaging Systems, Inc.
5LP7A		A-1513	/275	Lexel Imaging Systems, Inc.
5LP11A		A-1695	/275	Lexel Imaging Systems, Inc.
5SP1A		1-818-93	/480	Lexel Imaging Systems, Inc.
5SP7A		NYNSML 5032-1.70	/480	Lexel Imaging Systems, Inc.
5SP11A		NYNSML 5032-1.70	/480	Lexel Imaging Systems, Inc.
7ABP7A		1-CDU-60	/866	Lexel Imaging Systems, Inc.
7ABP7A		1-287-61	/866	Thomas Electronics, Inc.
7AGP19		1-817-93	/1178 (Navy)	Lexel Imaging Systems, Inc.

## PART LISTINGS

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFICATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
7AKP25		6046-A-1-6.17, 26 Feb 63	/1219 (Navy)	Lexel Imaging Systems, Inc.
7AQP7		62 ABDF-9	/1373 (Navy)	Lexel Imaging Systems, Inc.
7BP7A		2CDU-60	/66	Lexel Imaging Systems, Inc.
7YP1		1-422-73	/422	Lexel Imaging Systems, Inc.
7YP1		1-370-95	/422	Thomas Electronics, Inc.
7YP2		1-422-73	/422	Lexel Imaging Systems, Inc.
7YP2		1-370-95	/422	Thomas Electronics, Inc.
7YP7		1-422-73	/422	Lexel Imaging Systems, Inc.
7YP7		1-370-95	/422	Thomas Electronics, Inc.
10AKP7		NY 6046-A-1.6-16	/1297 (Navy)	Lexel Imaging Systems, Inc.
10ANP7		63FD2, 27 Nov 63	/1389 (Navy)	Lexel Imaging Systems, Inc.
10ANP7		770-066, 8 Jul 71	/1389 (Navy)	Thomas Electronics, Inc.
10KP7A		1-987-66	/1162	Lexel Imaging Systems, Inc.
10KP7A		1-191-62	/1162	Thomas Electronics, Inc.
10WP7A		1-988-66	/1005	Lexel Imaging Systems, Inc.
10WP7A		1-22-62	/1005	Thomas Electronics, Inc.
12ABP1A		ML Rpt 5032-B-15.84	/1261	Lexel Imaging Systems, Inc.
12ABP1A	12ABP1M	1-349-83	/1261	Thomas Electronics, Inc.
12ABP7A		ML Rpt 5032-B-15.84	/1261	Lexel Imaging Systems, Inc.
12ABP7A		1-32-62	/1261	Thomas Electronics, Inc.
12ABP19A		1-349-83	/1261	Thomas Electronics, Inc.
12AMP19		62ABDF6, 18 Feb 63	/1399 (Navy)	Lexel Imaging Systems, Inc.
12ARP19		63FD3, 2 Dec 63	/1423 (Navy)	Lexel Imaging Systems, Inc.
12ATP28		70FD3, 28 Aug 70	/1400 (Navy)	Lexel Imaging Systems, Inc.
12DP7C		WCLK-TM-60-19, 19 Jan 60	/1222	Lexel Imaging Systems, Inc.
12SN7GT 1/		1-247-59	/63	MPD, Inc.
12SP7D		NYNSML 5032-A-A1.775	/1056	Lexel Imaging Systems, Inc.
12SP7D		1-22-74	/1056	Thomas Electronics, Inc.
22CP7A		62ABDF3, 24 Apr 62 64FD1, 10 Jan 64	/1072 (Navy)	Lexel Imaging Systems, Inc.
22CP25A		1-816-93	/1072 (Navy)	Lexel Imaging Systems, Inc.
719A		1-332-67	/911	M. U. Inc.
5586	VMS-1928	1-203-96	/770	CPI (Beverly Microwave Division)
5586	L-4916A	1-057-00	/770	L-3 Communications Electron Devices
5657	VMS-2009	1-250-96	/770	CPI (Beverly Microwave Division)
5657	L-4957	1-057-00	/770	L-3 Communications Electron Devices
5780		1-334-63	/851	L-3 Communications Electron Devices
5864	VRP-5864	1-1203-69	/22	CPI (Beverly Microwave Division)
5865	VRP-5965	ASESA-21189	/368	CPI (Beverly Microwave Division)
5921	VRP-5921	ASESA-21226	/607	CPI (Beverly Microwave Division)
5922	VRP-5922	ASESA-21226	/607	CPI (Beverly Microwave Division)
5927	VRP-5927	A4087	/299	CPI (Beverly Microwave Division)
5948B		1-249-95	/1099	L-3 Communications Electron Devices
5949A		EEV Test report 9/71/3	/1100	E2V Technologies, PLC
5949A-1	L-4871	1-249-95	/1100	L-3 Communications Electron Devices
5979		1-447-84	/906	Canberra Dover, Inc.
5979		1-314-68	/906	LND, Inc.
5980		1-448-84	/973	Canberra Dover, Inc.
5980		1-902-68	/973	LND, Inc.
6024	VRP-6024	1-1255-77	/796	CPI (Beverly Microwave Division)
6040	VRP-6040	ASESA-20135A	/296	CPI (Beverly Microwave Division)
6041	VRP-6041	ASESA-20135A	/296	CPI (Beverly Microwave Division)

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6061	VRP-6061	ASESA-20908	/384	CPI (Beverly Microwave Division)
6162	VRP-6162	1-1203-69	/22	CPI (Beverly Microwave Division)
6299 1/		1-1047-66	/484	MPD, Inc.
6303		1-4-85	/1174	M. U. Inc.
6344A		563-71-1	/383 (Navy)	L-3 Communications Electron Devices
6378	BL-62	1-219-60	/964	CPI (Beverly Microwave Division)
6410A		1-057-95	/665	L-3 Communications Electron Devices
6442 1/		1-26-62	/1055	MPD, Inc.
6543		1-178-61	/849	L-3 Communications Electron Devices
6897 1/		1-856-73	/1037	MPD, Inc.
7034	4X150A	1-1700-06	/160	CPI (Microwave Power Products Division, Eimac Operation)
7077 1/		1-1065-76	/1203	MPD, Inc.
7156A		NAD, Crane Ltr QECW1-RLC, 13 Oct 69, CFD-11-69-1, 1 Dec 69	/1570 (Navy)	L-3 Communications Electron Devices
7203	4CX250B	1-1700-06	/889	CPI (Microwave Power Products Division, Eimac Operation)
7203A	4CX250BM	1-1700-06	/889	CPI (Microwave Power Products Division, Eimac Operation)
7211		1-228-97	/1633	CPI (Microwave Power Products Division, Eimac Operation)
7211		1-891-75	/1633	MPD, Inc.
7289	3CX100A5	1-416-71	/1120	CPI (Microwave Power Products Division, Eimac Operation)
7289		1-294-60	/1120	MPD, Inc.
7301		1-902-68	/1698 (Navy)	LND, Inc.
7381	BL-979	WCLK-TM-60-13, 11 Jan 60	/1254	CPI (Beverly Microwave Division)
7390		1-083A-94	/1361	L-3 Communications Electron Devices
7460		1-487-93	/1600 (Navy)	L-3 Communications Electron Devices
7462 1/		Rpt 27 Feb 61	/1335	MPD, Inc.
7486 1/		1-1066-76	/1330	MPD, Inc.
7554 1/		1-1101-76	/1325	MPD, Inc.
7580W	4CX250R	1-1700-06	/1385	CPI (Microwave Power Products Division, Eimac Operation)
7609		1-1700-06	/1331	CPI (Microwave Power Products Division, Eimac Operation)
7616		1-449-84	/986	Canberra Dover, Inc.
7616		1-746-70	/986	LND, Inc.
7621		1-081C-94	/1428	L-3 Communications Electron Devices
7621		B2579, 7 May 63	/1428	PerkinElmer Optoelectronics
7651		Rpt 133, Mar 68; Rpt 160, May 75	/1553	Photonis USA Pennsylvania, Inc.
7665		1-081B-94	/1485	L-3 Communications Electron Devices
7665A		1-081B-94	/1485	L-3 Communications Electron Devices
7665A		B-3157, 29 Sep 65	/1485	PerkinElmer Optoelectronics
7698		1-230-97	/1470 (Navy)	CPI (Microwave Power Products Division, Eimac Operation)
7698 1/		Rpt 9 May 75	/1470 (Navy)	MPD, Inc.
7782		1-081D-94	/1636 (Navy)	L-3 Communications Electron Devices
7782		B-3157, 29 Sep 65	/1636 (Navy)	PerkinElmer Optoelectronics
7815	3CPN10A5	1-231-97	/1429 (Navy)	CPI (Microwave Power Products Division, Eimac Operation)
7815		Rpt 26 Mar 64	/1429 (Navy)	MPD, Inc.

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7840		190-05143A, 30 Jul 68	/1388 (Navy)	LND, Inc.
7843		157	/1457	Photonis USA Pennsylvania, Inc.
8161	3CX2500A3	1-1702-06	/1767	CPI (Microwave Power Products Division, Eimac Operation)
8167	4CX300A	1-1700-06	/1313	CPI (Microwave Power Products Division, Eimac Operation)
8168	4CX1000A	1-1700-06	/1569	CPI (Microwave Power Products Division, Eimac Operation)
8169	4CX3000A	1-1702-06	/1725	CPI (Microwave Power Products Division, Eimac Operation)
8170W	4CX5000R	1-1702-06	/1427	CPI (Microwave Power Products Division, Eimac Operation)
8171	4CX10000D	1-1702-06	/1716	CPI (Microwave Power Products Division, Eimac Operation)
8251	3CX2500F3	1-1702-06	/1619	CPI (Microwave Power Products Division, Eimac Operation)
8252W	4PR60C	1-1699-06	/1679	CPI (Microwave Power Products Division, Eimac Operation)
8281	4CX15,000A	1-1702-06	/1767D	CPI (Microwave Power Products Division, Eimac Operation)
8321	4CX350A	1-1700-06	/1634	CPI (Microwave Power Products Division, Eimac Operation)
8321A	4CX350AC	1-1700-06	/1634	CPI (Microwave Power Products Division, Eimac Operation)
8322	4CX350F	1-1700-06	/1634	CPI (Microwave Power Products Division, Eimac Operation)
8354		EG and G Test Rpt	/1426 (Navy)	PerkinElmer Optoelectronics
8403	EIMAC 8403	1-367-71	/1660	CPI (Microwave Power Products Division, Eimac Operation)
8533W		1707T	/1726	MPD, Inc.
8538B		1-2014-07	/1729	CPI (Microwave Power Products Division, Eimac Operation)
8561	4CX300Y	1-1700-06	/1541 (USAF)	CPI (Microwave Power Products Division, Eimac Operation)
8590	4CPX250K	1-1700-06	/1670	CPI (Microwave Power Products Division, Eimac Operation)
8613		1-081-94	/1590	L-3 Communications Electron Devices
8613		B-2972, 25 Feb 65	/1590	PerkinElmer Optoelectronics
8621	4CX300Y	1-1700-06	/1580	CPI (Microwave Power Products Division, Eimac Operation)
8660	4CX1500B	1-1700-06	/1648 (Navy)	CPI (Microwave Power Products Division, Eimac Operation)
8682	SFD-332	Nr Q-280-35, Jan 67	/1624	CPI (Beverly Microwave Division)
8745 1/		Rpts 24 Mar 64, 24 Jun 71	/1702 (Navy)	MPD, Inc.
8765		1-081A-94	/1661	L-3 Communications Electron Devices
8765		1-589-72	/1661	PerkinElmer Optoelectronics
8767		1-2624-09	/1647	Canberra Company
8767		306-05143A3, 21 Aug 68	/1647	LND, Inc.
8789		1-083-94	/1658 (USAF)	L-3 Communications Electron Devices
8798	L-4965	1-057-00	/1688	L-3 Communications Electron Devices
8855	SFD-352	USNAS Proj. 9200-209 Tech Memo Nr 1	/1640	CPI (Beverly Microwave Division)
8855		563-702, 22 Apr 70	/1640	L-3 Communications Electron Devices
8906 1/		GE/8906, 6 Jun 73	/1717	MPD, Inc.

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8930		1-1700-06	/1385	CPI (Microwave Power Products Division, Eimac Operation)
8939	SFD-382	1-877-74	/1738	CPI (Beverly Microwave Division)
8939	L-4593	1-705-78	/1738	L-3 Communications Electron Devices
8943	SFD-342	1-513-83	/1734	CPI (Beverly Microwave Division)
8943		1-212-81	/1734	L-3 Communications Electron Devices
8951		EG and G Test Rpts 8 Mar 62 & 20 Mar 73	/1735 (Navy)	PerkinElmer Optoelectronics
8965	Y616	1-237-97	/1757 (Navy)	CPI (Microwave Power Products Division, Eimac Operation)

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Canberra Company (CAGE Code: L1620)**

Location: West 50B Caldari Road, Concord, Ontario L4K 4N8, Canada

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Canberra Dover, Inc. (CAGE Code: 06442)**

Location: 58 Richboynton Road, Dover, NJ 07801-2650, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: CPI (Beverly Microwave Division) (CAGE Code: 88236)**

Location: Communications & Power Industries, 150 Sohier Road, Beverly, MA 01915-5595, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: CPI (Microwave Power Products Division, Eimac Operation) (CAGE Code: 06980)**

Location: Communications & Power Industries, 607 Hansen Way, Palo Alto, CA 94303-1031, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: E2V Technologies, PLC (CAGE Code: 6P860)**

Location: 106 Waterhouse Lane, Chelmsford, Essex CM1 2QU, United Kingdom

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: L-3 Communications Electron Devices (CAGE Code: 89146)**

Location: 1035 Westminister Drive, Williamsport, PA 17701-3947, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Lexel Imaging Systems, Inc. (CAGE Code: 0HBH2)**

Location: 1501 Newtown Pike, Lexington, KY 40511-1257, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: LND, Inc. (CAGE Code: 26237)**

Location: 3230 Lawson Boulevard, Oceanside, L.I., NY 11572-3796, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: M. U. Inc. (CAGE Code: 24289)**

Location: P.O. Box 1007, 2941 San Luis Rey Road, Oceanside, CA 92051, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: MPD, Inc. (CAGE Code: 33173)**

Location: 316 East Ninth Street, Owensboro, KY 42303-1008, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: New Japan Radio Co. (CAGE Code: S4497)**

Location: No. 23-1500 Fukuoka, Kamufukuoka-Shi, Kawagoe, Saitama-Prefecture, Japan

Plants:

1. Plant: Same Address as Manufacturer

Authorized Distributors:

1. Litton Systems, Inc., Electron Devices Division, 1035 Westminister Drive, Williamsport, PA 17701-3947, US

**Manufacturer: PerkinElmer Optoelectronics (CAGE Code: 25506)**

Location: Electro-Optics Division, 35 Congress Street, Salem, MA 01970-7304, US

Plants:

1. Plant: Same Address as Manufacturer

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Photonis USA Pennsylvania, Inc. (CAGE Code: 0BMR4)**

Location: 1000 New Holland Pike, Lancaster, PA 17601-2672, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Thomas Electronics, Inc. (CAGE Code: 01852)**

Location: 100 Riverview Road, Wayne, NJ 07470, US

Plants:

1. Plant: Same Address as Manufacturer