Specification Details: **Date: 11/19/2018**

Specification: MIL-DTL-83731
Title: Switches, Toggle, Unsealed and Sealed Toggle
Federal Supply Class (FSC): 5930
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: Hybrid Devices Branch, DLA Land and Maritime - VQH
Primary Qualifying Activity Contact: 614-692-0504, e-mail: vqh.bb@dla.mil
Secondary Qualifying Activity Contact: 614-692-0594, e-mail: vqh.kr@dla.mil

Notes:

N/A

Part Configuration:

M83731/9-211

Designator	Specif-ication Number	Specif-ication Sheet	Switch	Termination Type
M	83731	/9	-21	1

PART LISTINGS

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/9-211	7103SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-212	7103SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/9-231	7101SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-232	7101SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/9-261	7108SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-262	7108SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/9-271	7105SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-272	7105SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/9-311	7107SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-312	7107SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/9-341	7109SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/9-342	7109SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-211	7203SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-212	7203SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-231	7201SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-232	7201SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-261	7208SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-262	7208SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-271	7205SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-272	7205SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-311	7207SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-312	7207SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-321	7211SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-322	7211SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-331	7213SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-332	7213SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/10-351	7215SCWZG8E	83731-4464-15	C & K Components, Inc.
M83731/10-352	7215SCWCG8E	83731-4464-15	C & K Components, Inc.
M83731/13-211	7103MD9AVG8E	83731-4464-15	C & K Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/13-231	7101MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/13-261	7108MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/13-271	7105MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/13-311	7107MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/13-341	7109MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-211	7203MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-231	7201MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-261	7208MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-271	7205MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-311	7207MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-321	7211MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-331	7213MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/14-351	7215MD9AVG8E	83731-4464-15	C & K Components, Inc.
M83731/15-211	7103MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/15-231	7101MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/15-261	7108MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/15-271	7105MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/15-311	7107MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/15-341	7109MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-211	7203MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-231	7201MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-261	7208MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-271	7205MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-311	7207MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-321	7211MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-331	7213MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/16-351	7215MD9AG8E	83731-4464-15	C & K Components, Inc.
M83731/23-14A010	12144X778	3950-1798-06	APEM Components, Inc.
M83731/23-14A012	12144-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14A01V	121441VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14A02V	121442VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14A03V	121443VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14A110	121440.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-14A112	121440.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14A11V	121440.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14A12V	121440.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14A13V	121440.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/010	121441RX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/012	121441R-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/01V	121441R1VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/02V	121441R2VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/03V	121441R3VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/110	121441R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/112	121441R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/11V	121441R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/12V	121441R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14B1/13V	121441R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/010	121442RX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/012	121442R-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/01V	121442R1VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/02V	121442R2VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/03V	121442R3VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/110	121442R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/112	121442R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/11V	121442R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-14C1/12V	121442R0.382VX778	3950-1798-06	APEM Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/23-14C1/13V	121442R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15A010	12145X778	3950-1798-06	APEM Components, Inc.
M83731/23-15D012	12145-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-15D01V	121451VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15D02V	121452VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15D03V	121453VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15D110	121450.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-15D112	121450.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-15D11V	121450.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15D12V	121450.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-15D13V	121450.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A010	12146X778	3950-1798-06	APEM Components, Inc.
M83731/23-16A012	12146-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-16A01V	121461VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A02V	121462VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A03V	121463VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A110	121460.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-16A112	121460.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-16A11V	121460.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A12V	121460.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-16A13V	121460.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17A010	12147X778	3950-1798-06	APEM Components, Inc.
M83731/23-17D012	12147-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-17D01V	121471VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17D02V	121472VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17D03V	121473VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17D110	121470.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-17D112	121470.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-17D11V	121470.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17D12V	121470.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-17D13V	121470.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18A010	12148X778	3950-1798-06	APEM Components, Inc.
M83731/23-18D012	12148-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-18D01V	121481VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18D02V	121482VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18D03V	121483VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18D110	121480.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-18D112	121480.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-18D11V	121480.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18D12V	121480.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-18D13V	121480.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A010	12149X778	3950-1798-06	APEM Components, Inc.
M83731/23-19A012	12149-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-19A01V	121491VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A02V	121492VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A03V	121493VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A110	121490.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-19A112	121490.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-19A11V	121490.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A12V	121490.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-19A13V	121490.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A010	12244X778	3950-1798-06	APEM Components, Inc.
M83731/23-24A012	12244-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24A01V	122441VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A02V	122442VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A03V	122443VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A110	122440.38X778	3950-1798-06	APEM Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/23-24A112	122440.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24A11V	122440.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A12V	122440.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24A13V	122440.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/010	122441RX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/012	122441R-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/01V	122441R1VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/02V	122441R2VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/03V	122441R3VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/110	122441R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/112	122441R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/11V	122441R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/12V	122441R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24B1/13V	122441R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/010	122442RX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/012	122442R-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/01V	122442R1VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/02V	122442R2VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/03V	122442R3VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/110	122442R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/112	122442R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/11V	122442R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/12V	122442R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-24C1/13V	122442R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D010	12245X778	3950-1798-06	APEM Components, Inc.
M83731/23-25D012	12245-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-25D01V	122451VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D02V	122452VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D03V	122453VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D110	122450.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-25D112	122450.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-25D11V	122450.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D12V	122450.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-25D13V	122450.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A010	12246X778	3950-1798-06	APEM Components, Inc.
M83731/23-26A012	12246-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-26A01V	122461VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A02V	122462VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A03V	122463VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A110	122460.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-26A112	122460.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-26A11V	122460.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A12V	122460.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-26A13V	122460.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D010	12247X778	3950-1798-06	APEM Components, Inc.
M83731/23-27D012	12247-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-27D01V	122471VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D02V	122472VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D03V	122473VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D110	122470.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-27D112	122470.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-27D112V	122470.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D113V	122470.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-27D11V	122470.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-28D010	12248X778	3950-1798-06	APEM Components, Inc.
M83731/23-28D012	12248-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-28D01V	122481VX778	3950-1798-06	APEM Components, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/23-28D02V	122482VX778	3950-1798-06	APEM Components, Inc.
M83731/23-28D03V	122483VX778	3950-1798-06	APEM Components, Inc.
M83731/23-28D110	122480.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-28D112	122480.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-28D11V	122480.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-28D12V	122480.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-28D13V	122480.383VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A010	12249X778	3950-1798-06	APEM Components, Inc.
M83731/23-29A012	12249-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-29A01V	122491VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A02V	122492VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A03V	122493VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A110	122490.38X778	3950-1798-06	APEM Components, Inc.
M83731/23-29A112	122490.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/23-29A11V	122490.381VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A12V	122490.382VX778	3950-1798-06	APEM Components, Inc.
M83731/23-29A13V	122490.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A010	12156X778	3950-1798-06	APEM Components, Inc.
M83731/24-16A012	12156-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-16A01V	121561VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A02V	121562VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A03V	121563VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A110	121560.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-16A112	121560.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-16A11V	121560.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A12V	121560.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-16A13V	121560.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17A010	12157X778	3950-1798-06	APEM Components, Inc.
M83731/24-17D012	12157-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-17D01V	121571VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17D02V	121572VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17D03V	121573VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17D110	121570.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-17D112	121570.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-17D11V	121570.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17D12V	121570.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-17D13V	121570.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18A010	12158X778	3950-1798-06	APEM Components, Inc.
M83731/24-18D012	12158-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-18D01V	121581VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18D02V	121582VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18D03V	121583VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18D110	121580.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-18D112	121580.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-18D11V	121580.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18D12V	121580.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-18D13V	121580.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A010	12159X778	3950-1798-06	APEM Components, Inc.
M83731/24-19A012	12159-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-19A01V	121591VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A02V	121592VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A03V	121593VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A110	121590.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-19A112	121590.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-19A11V	121590.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A12V	121590.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-19A13V	121590.383VX778	3950-1798-06	APEM Components, Inc.

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M83731/24-26A010	12256X778	3950-1798-06	APEM Components, Inc.
M83731/24-26A012	12256-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-26A01V	122561VX778	3950-1798-06	APEM Components, Inc.
M83731/24-26A02V	122562VX778	3950-1798-06	APEM Components, Inc.
M83731/24-26A03V	122563VX778	3950-1798-06	APEM Components, Inc.
M83731/24-26A110	122560.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-26A112	122560.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-26A11V	122560.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-26A12V	122560.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-26A13V	122560.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D010	12257X778	3950-1798-06	APEM Components, Inc.
M83731/24-27D012	12257-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-27D01V	122571VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D02V	122572VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D03V	122573VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D110	122570.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-27D112	122570.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-27D112V	122570.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D113V	122570.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-27D11V	122570.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D010	12258X778	3950-1798-06	APEM Components, Inc.
M83731/24-28D012	12258-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-28D01V	122581VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D02V	122582VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D03V	122583VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D110	122580.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-28D112	122580.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-28D11V	122580.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D12V	122580.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-28D13V	122580.383VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A010	12259X778	3950-1798-06	APEM Components, Inc.
M83731/24-29A012	12259-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-29A01V	122591VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A02V	122592VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A03V	122593VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A110	122590.38X778	3950-1798-06	APEM Components, Inc.
M83731/24-29A112	122590.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/24-29A11V	122590.381VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A12V	122590.382VX778	3950-1798-06	APEM Components, Inc.
M83731/24-29A13V	122590.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A010	12164X778	3950-1798-06	APEM Components, Inc.
M83731/25-14A012	12164-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-14A01V	121641VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A02V	121642VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A03V	121643VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A110	121640.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-14A112	121640.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-14A11V	121640.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A12V	121640.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14A13V	121640.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/010	121641RX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/012	121641R-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/01V	121641R1VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/02V	121641R2VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/03V	121641R3VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/110	121641R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/112	121641R0.38-12X778	3950-1798-06	APEM Components, Inc.

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M83731/25-14B1/11V	121641R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/12V	121641R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14B1/13V	121641R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/010	121642RX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/012	121642R-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/01V	121642R1VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/02V	121642R2VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/03V	121642R3VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/110	121642R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/112	121642R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/11V	121642R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/12V	121642R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-14C1/13V	121642R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A010	12166X778	3950-1798-06	APEM Components, Inc.
M83731/25-16A012	12166-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-16A01V	121661VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A02V	121662VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A03V	121663VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A110	121660.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-16A112	121660.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-16A11V	121660.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A12V	121660.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-16A13V	121660.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17A010	12167X778	3950-1798-06	APEM Components, Inc.
M83731/25-17D012	12167-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-17D01V	121671VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17D02V	121672VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17D03V	121673VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17D110	121670.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-17D112	121670.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-17D11V	121670.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17D12V	121670.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-17D13V	121670.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18A010	12168X778	3950-1798-06	APEM Components, Inc.
M83731/25-18D012	12168-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-18D01V	121681VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18D02V	121682VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18D03V	121683VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18D110	121680.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-18D112	121680.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-18D11V	121680.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18D12V	121680.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-18D13V	121680.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A010	12169X778	3950-1798-06	APEM Components, Inc.
M83731/25-19A012	12169-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-19A01V	121691VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A02V	121692VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A03V	121693VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A110	121690.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-19A112	121690.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-19A11V	121690.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A12V	121690.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-19A13V	121690.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24A010	12264X778	3950-1798-06	APEM Components, Inc.
M83731/25-24A012	12264-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24A01V	122641VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24A02V	122642VX778	3950-1798-06	APEM Components, Inc.

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M83731/25-24A03V	122643VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24A110	122640.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-24A112	122640.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24A11V	122640.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24A12V	122640.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24A13V	122640.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/010	122641RX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/012	122641R-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/01V	122641R1VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/02V	122641R2VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/03V	122641R3VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/110	122641R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/112	122641R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/11V	122641R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/12V	122641R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24B1/13V	122641R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/010	122642RX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/012	122642R-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/01V	122642R1VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/02V	122642R2VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/03V	122642R3VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/110	122642R0.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/112	122642R0.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/11V	122642R0.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/12V	122642R0.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-24C1/13V	122642R0.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A010	12266X778	3950-1798-06	APEM Components, Inc.
M83731/25-26A012	12266-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-26A01V	122661VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A02V	122662VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A03V	122663VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A110	122660.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-26A112	122660.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-26A11V	122660.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A12V	122660.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-26A13V	122660.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D010	12267X778	3950-1798-06	APEM Components, Inc.
M83731/25-27D012	12267-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-27D01V	122671VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D02V	122672VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D03V	122673VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D110	122670.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-27D112	122670.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-27D112V	122670.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D113V	122670.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-27D11V	122670.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D010	12268X778	3950-1798-06	APEM Components, Inc.
M83731/25-28D012	12268-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-28D01V	122681VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D02V	122682VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D03V	122683VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D110	122680.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-28D112	122680.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-28D11V	122680.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D12V	122680.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-28D13V	122680.383VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A010	12269X778	3950-1798-06	APEM Components, Inc.

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M83731/25-29A012	12269-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-29A01V	122691VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A02V	122692VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A03V	122693VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A110	122690.38X778	3950-1798-06	APEM Components, Inc.
M83731/25-29A112	122690.38-12X778	3950-1798-06	APEM Components, Inc.
M83731/25-29A11V	122690.381VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A12V	122690.382VX778	3950-1798-06	APEM Components, Inc.
M83731/25-29A13V	122690.383VX778	3950-1798-06	APEM Components, Inc.
MS18150-1	TW20001	83731-4400-15	SAFRAN Electrical & Power USA LLC (SEP)
MS18151-1	TW20002	83731-4400-15	SAFRAN Electrical & Power USA LLC (SEP)
MS25068-23	7664K5	83731-1873-07	Eaton Control S de Rlde CV
MS25068-24	7660K13	83731-1873-07	Eaton Control S de Rlde CV
MS25068-25	7668K7	83731-1873-07	Eaton Control S de Rlde CV
MS25068-26	7674K5	83731-1873-07	Eaton Control S de Rlde CV
MS25068-27	7672K5	83731-1873-07	Eaton Control S de Rlde CV
MS25068-28	7666K9	83731-1873-07	Eaton Control S de Rlde CV
MS25068-31	7670K6	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25068 INACTIVE FOR NEW DESIGN - USE MS24525 OR MS25308			
MS25068-21	7662K7	83731-1873-07	Eaton Control S de Rlde CV
MS25098-23	8261K23	83731-1873-07	Eaton Control S de Rlde CV
MS25098-26	8261K26	83731-1873-07	Eaton Control S de Rlde CV
MS25098-29	8261K29	83731-1873-07	Eaton Control S de Rlde CV
MS25098-30	8261K30	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25098 INACTIVE FOR NEW DESIGN - NO SUPERSEDING STANDARD			
MS25098-22	8261K22	83731-1873-07	Eaton Control S de Rlde CV
MS25100-23	8262K23	83731-1873-07	Eaton Control S de Rlde CV
MS25100-26	8262K26	83731-1873-07	Eaton Control S de Rlde CV
MS25100-29	8262K29	83731-1873-07	Eaton Control S de Rlde CV
MS25100-30	8262K30	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25100 INACTIVE FOR NEW DESIGN - NO SUPERSEDING STANDARD			
MS25100-22	8262K22	83731-1873-07	Eaton Control S de Rlde CV
MS25125-B4	8857K54	83731-1873-07	Eaton Control S de Rlde CV
MS25125-C2	8857K47	83731-1873-07	Eaton Control S de Rlde CV
MS25125-C3	8857K45	83731-1873-07	Eaton Control S de Rlde CV
MS25125-E2	8857K48	83731-1873-07	Eaton Control S de Rlde CV
MS25125-E3	8857K44	83731-1873-07	Eaton Control S de Rlde CV
MS25125-J4	8857K49	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25125 INACTIVE FOR NEW DESIGN - USE MS24658 OR MS24612			
MS25125-B1	8857K40	83731-1873-07	Eaton Control S de Rlde CV
MS25126-B1	8858K40	83731-1873-07	Eaton Control S de Rlde CV
MS25126-C3	8858K45	83731-1873-07	Eaton Control S de Rlde CV
MS25126-D1	8858K42	83731-1873-07	Eaton Control S de Rlde CV
MS25126-E1	8858K43	83731-1873-07	Eaton Control S de Rlde CV
MS25126-M11	8858K46	83731-1873-07	Eaton Control S de Rlde CV
MS25126-E3	8858K44	83731-1873-07	Eaton Controls S. de R.L. de C.V.
Note: MS25126 INACTIVE FOR NEW DESIGN - USE MS24659 OR MS24613			

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MS25126-A1	8858K39	83731-1873-07	Eaton Control S de Rlde CV
MS25127-E2	8859K48	83731-1873-07	Eaton Control S de Rlde CV
MS25127-E3	8859K44	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25127 INACTIVE FOR NEW DESIGN - USE MS24660 OR MS24614			
MS25127-C3	8859K45	83731-1873-07	Eaton Control S de Rlde CV
MS25201-5	8860K5	83731-1873-07	Eaton Control S de Rlde CV
MS25201-6	8860K6	83731-1873-07	Eaton Control S de Rlde CV
MS25201-7	8860K7	83731-1873-07	Eaton Control S de Rlde CV
MS25201-8	8860K8	83731-1873-07	Eaton Control S de Rlde CV
MS25201-9	8860K9	83731-1873-07	Eaton Control S de Rlde CV
Note: MS25201 INACTIVE FOR NEW DESIGN - USE MS27407			
MS25201-4	8860K4	83731-1873-07	Eaton Control S de Rlde CV
MS27716-21-1	1TW1-1	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-22-1	1TW1-2	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-23-1	1TW1-3	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-26-1	1TW1-8	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-27-1	1TW1-7	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-31-1	1TW1-5	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27716-21-1	T3-21111	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-22-1	T3-21121	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-23-1	T3-21131	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-26-1	T3-21141	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-27-1	T3-21151	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-31-1	T3-21161	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-21-1	2TW1-1	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-22-1	2TW1-2	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-23-1	2TW1-3	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-26-1	2TW1-8	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-27-1	2TW1-7	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-31-1	2TW1-5	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27717-21-1	T3-21211	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-22-1	T3-21221	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-23-1	T3-21231	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-26-1	T3-21241	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-27-1	T3-21251	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-31-1	T3-21261	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-21-1	11TW1-1	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-22-1	11TW1-2	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-23-1	11TW1-3	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-26-1	11TW1-8	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-27-1	11TW1-7	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-31-1	11TW1-5	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27718-21-1	T3-11111	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-22-1	T3-11121	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-23-1	T3-11131	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-26-1	T3-11141	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-27-1	T3-11151	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-31-1	T3-11161	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-21-1	12TW1-1	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27719-22-1	12TW1-2	ESA Ltr, 02 Mar 93	Honeywell International Inc.

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MS27719-23-1	12TW1-3	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27719-26-1	12TW1-8	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27719-27-1	12TW1-7	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27719-31-1	12TW1-5	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27719-21-1	T3-11211	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-22-1	T3-11221	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-23-1	T3-11231	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-26-1	T3-11241	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-27-1	T3-11251	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-31-1	T3-11261	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1A	11TW1-1A	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1B	11TW1-1B	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1D	11TW1-1D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1E	11TW1-1E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1F	11TW1-1F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1G	11TW1-1G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1H	11TW1-1H	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1J	11TW1-1J	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1K	11TW1-1K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1L	11TW1-1L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1M	11TW1-1M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1N	11TW1-1N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1P	11TW1-1P	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-22-1D	11TW1-2D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-22-1F	11TW1-2F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-22-1G	11TW1-2G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-23-1D	11TW1-3D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-23-1F	11TW1-3F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-23-1G	11TW1-3G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-26-1F	11TW1-8F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-27-1E	11TW1-7E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-27-1L	11TW1-7L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-27-1N	11TW1-7N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1E	11TW1-5E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1F	11TW1-5F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1K	11TW1-5K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1L	11TW1-5L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1M	11TW1-5M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-31-1N	11TW1-5N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27720-21-1A	T3-31111-A	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1B	T3-31111-B	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1D	T3-31111-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1E	T3-31111-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1F	T3-31111-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1G	T3-31111-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1H	T3-31111-H	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1J	T3-31111-J	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1K	T3-31111-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1L	T3-31111-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1M	T3-31111-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1N	T3-31111-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1P	T3-31111-P	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1D	T3-31121-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1F	T3-31121-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1G	T3-31121-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-23-1D	T3-31131-D	ESA Ltr, 01 Nov 93	Otto Controls

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MS27720-23-1F	T3-31131-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-23-1G	T3-31131-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-26-1F	T3-31141-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1E	T3-31151-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1L	T3-31151-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1N	T3-31151-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1E	T3-31161-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1F	T3-31161-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1K	T3-31161-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1L	T3-31161-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1M	T3-31161-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1N	T3-31161-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1A	12TW1-1A	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1B	12TW1-1B	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1D	12TW1-1D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1E	12TW1-1E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1F	12TW1-1F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1G	12TW1-1G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1H	12TW1-1H	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1J	12TW1-1J	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1K	12TW1-1K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1L	12TW1-1L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1M	12TW1-1M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1N	12TW1-1N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1P	12TW1-1P	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-22-1D	12TW1-2D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-22-1F	12TW1-2F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-22-1G	12TW1-2G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-23-1D	12TW1-3D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-23-1F	12TW1-3F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-23-1G	12TW1-3G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-26-1F	12TW1-8F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-27-1E	12TW1-7E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-27-1L	12TW1-7L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-27-1N	12TW1-7N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1E	12TW1-5E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1F	12TW1-5F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1K	12TW1-5K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1L	12TW1-5L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1M	12TW1-5M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-31-1N	12TW1-5N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27721-21-1A	T3-31211-A	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1B	T3-31211-B	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1D	T3-31211-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1E	T3-31211-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1F	T3-31211-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1G	T3-31211-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1H	T3-31211-H	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1J	T3-31211-J	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1K	T3-31211-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1L	T3-31211-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1M	T3-31211-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1N	T3-31211-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1P	T3-31211-P	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-22-1D	T3-31221-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-22-1F	T3-31221-F	ESA Ltr, 01 Nov 93	Otto Controls

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MS27721-22-1G	T3-31221-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1D	T3-31231-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1F	T3-31231-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1G	T3-31231-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-26-1F	T3-31241-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1E	T3-31251-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1L	T3-31251-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1N	T3-31251-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1E	T3-31261-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1F	T3-31261-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1K	T3-31261-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1L	T3-31261-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1M	T3-31261-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1N	T3-31261-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27753-34	12TW1-12	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27753-35	12TW1-56	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27753-36	12TW1-72	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27753-38	12TW1-10	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27753-39	12TW1-50	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27753-40	12TW1-70	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38E	12TW1-10E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34A	12TW1-12A	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34B	12TW1-12B	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34D	12TW1-12D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34E	12TW1-12E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34F	12TW1-12F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34G	12TW1-12G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34H	12TW1-12H	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34J	12TW1-12J	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34K	12TW1-12K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34L	12TW1-12L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34M	12TW1-12M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34N	12TW1-12N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-34P	12TW1-12P	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35E	12TW1-56E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35F	12TW1-56F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35K	12TW1-56K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35L	12TW1-56L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35M	12TW1-56M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-35N	12TW1-56N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-36E	12TW1-72E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-36L	12TW1-72L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-36N	12TW1-72N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38A	12TW1-10A	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38B	12TW1-10B	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38D	12TW1-10D	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38F	12TW1-10F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38G	12TW1-10G	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38H	12TW1-10H	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38J	12TW1-10J	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38K	12TW1-10K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38L	12TW1-10L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38M	12TW1-10M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38N	12TW1-10N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-38P	12TW1-10P	ESA Ltr, 02 Mar 93	Honeywell International Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
MS27754-39E	12TW1-50E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-39F	12TW1-50F	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-39K	12TW1-50K	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-39L	12TW1-50L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-39M	12TW1-50M	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-39N	12TW1-50N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-40E	12TW1-70E	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-40L	12TW1-70L	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27754-40N	12TW1-70N	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-34	2TW1-12	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-35	2TW1-56	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-36	2TW1-72	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-38	2TW1-10	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-39	2TW1-50	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS27790-40	2TW1-70	ESA Ltr, 02 Mar 93	Honeywell International Inc.
MS35058-22	8801K22	83731-1873-07	Eaton Control S de Rlde CV
MS35058-23	8810K15	83731-1873-07	Eaton Control S de Rlde CV
MS35058-24	8801K23	83731-1873-07	Eaton Control S de Rlde CV
MS35058-25	8813K18	83731-1873-07	Eaton Control S de Rlde CV
MS35058-26	8804K13	83731-1873-07	Eaton Control S de Rlde CV
MS35058-27	8812K14		Eaton Control S de Rlde CV
MS35058-28	8811K18	83731-1873-07	Eaton Control S de Rlde CV
MS25058-29	8813K17	83731-1873-07	Eaton Control S de Rlde CV
MS35058-30	8811K17	83731-1873-07	Eaton Control S de Rlde CV
MS35058-31	8809K16	83731-1873-07	Eaton Control S de Rlde CV
Note: MS35058 INACTIVE FOR NEW DESIGN - USE MS24523 OR MS25306			
MS35058-21	8800K16	83731-1873-07	Eaton Control S de Rlde CV
MS35059-22	8822K20	83731-1873-07	Eaton Control S de Rlde CV
MS35059-23	8824K14	83731-1873-07	Eaton Control S de Rlde CV
MS35059-24	8822K21	83731-1873-07	Eaton Control S de Rlde CV
MS35059-25	8828-K12	83731-1873-07	Eaton Control S de Rlde CV
MS35059-26	8830K13	83731-1873-07	Eaton Control S de Rlde CV
MS35059-27	8834K5	83731-1873-07	Eaton Control S de Rlde CV
MS35059-28	8826K14	83731-1873-07	Eaton Control S de Rlde CV
MS35059-29	8828K13	83731-1873-07	Eaton Control S de Rlde CV
MS35059-30	8826K15	83731-1873-07	Eaton Control S de Rlde CV
MS35059-31	8832K6	83731-1873-07	Eaton Control S de Rlde CV
Note: MS35059 INACTIVE FOR NEW DESIGN - USE MS24524 OR MS25307			
MS35059-21	8820K16	83731-1873-07	Eaton Control S de Rlde CV

Manufacturer and Supplier Location Information

Manufacturer: APEM Components, Inc. (CAGE Code: 6Z1J1)
Location: 63 Neck Road, Haverhill, MA 01835, US

Plants:
1. APEM Components, Inc., CAGE: F7507, 55, Avenue Edouard Herriot, BP1, 82303 Caussade cedex, France

Manufacturer: C&K Components (CAGE Code: 63HW9)
Location: 15 Riverdale Avenue, Newton, MA 02458, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Eaton Controls S. de R.L. de C.V. (CAGE Code: SCT67)
Location: Avenida Chapultepec s/n Parque Industrial Colonial, Reynosa, Tamaulipas, MX 88570,

Manufacturer: Honeywell Sensing and Productivity Solutions (CAGE Code: 91929)
Location: 315 E. Stephenson Street, Freeport, IL 61032, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Otto Engineering, Inc. (CAGE Code: 21649)
Location: Otto Controls Division, 2 East Main Street, Carpentersville, IL 60110, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: SAFRAN Electrical & Power USA LLC (SEP) (CAGE Code: 81640)
Location: 2250 Whitfield Avenue, Sarasota, FL 34243, US

Plants:
1. Safran Labinal Power Systems Plant 4, Complejo Industrial Chihuahua, Av Homero Y Nicolas Gogol # 11322, Chihuahua, 31136, Mexico