

## EMS, Inc. Preferred Parts List

Resistors	0402			
	EMS#	DESCRIPTION	MFG	MFG#
	202-4617	0 0402 1% .1W	PANASONIC	ERJ-2GE0R00X
	202-5183	10 0402 1% .0625W	YAGEO	RC0402FR-0710RL
	202-6978	47 0402 1% .1W	PANASONIC	ERJ-2RKF47R0X
	202-6561	100 0402 5% .063W	VISHAY	CRCW0402100RJNED
	202-5514	470 0402 1% .1W	PANASONIC	ERJ-2RKF4700X
	202-4627	1K 0402 1% .1W	PANASONIC	ERJ-2RKF1001X
	202-5510	2.2K 0402 1% .1W	PANASONIC	ERJ-2RKF2201X
	202-6983	3.32K 0402 1% .0625W	VISHAY	CRCW04023K32FKED
	202-4618	4.7K 0402 1% .1W	PANASONIC	ERJ-2RKF4701X
	202-4611	10K 0402 1% .1W	PANASONIC	ERJ-2RKF1002X
	202-4615	20K 0402 1% .1W	PANASONIC	ERJ-2RKF2002X
	202-4625	33K 0402 1% .1W		ERJ-2RKF3302X
	202-4614	100K 0402 1% .1W	PANASONIC	ERJ-2RKF1003X
	202-4662	330K 0402 1% .1W		ERJ-2RKF3303X
	202-6982	499K 0402 1% .0625W	VISHAY	CRCW0402499KFKED
	202-7067	1M 0402 1% .0625W	VISHAY	CRCW04021M00FKED

Resistors	0603			
	EMS#	DESCRIPTION	MFG	MFG#
	203-0913	0 0603 5% .1W	VISHAY	CRCW06030000Z0EA
	203-1434	10 0603 1% .1W	VISHAY	CRCW060310R0FKEA
	203-0020	47 0603 1% .1W	VISHAY	CRCW060347R0FKEA
	203-0136	100 0603 1% .1W	VISHAY	CRCW0603100R0FKEA
	203-3264	220 0603 1% .1W	PANASONIC	ERJ-3EKF2200V
	203-0114	330 0603 1% .1W	VISHAY	CRCW0603330R0FKEA
	203-1435	470 0603 1% .1W	VISHAY	CRCW0603470R0FKEA
	203-2926	499 0603 1% .1W	BOURNS	CRO603-FX-4990ELF
	203-0077	1K 0603 1% .1W	VISHAY	CRCW06031K00FKEA
	203-2903	2K 0603 1% .1W	VISHAY	CRCW06032K00FKEA
	203-0970	3.32K 0603 1% .1W	VISHAY	ERJ-3EKF3321V
	203-0078	4.7K 0603 1% .1W	VISHAY	CRCW06034K70FKEA
	203-0014	10K 0603 1% .1W	VISHAY	CRCW060310K0FKEA
	203-3267	20K 0603 1% .1W	PANASONIC	ERJ-3EKF2002V
	203-2915	24.9K 0603 1% .1W	VISHAY	CRCW060324K9FKEA
	203-0079	47K 0603 1% .1W	VISHAY	CRCW060347K0FKEA
	203-4898	49.9K 0603 1% .1W	VISHAY	CRCW060349K9FKEA
	203-2920	100K 0603 1% .1W	VISHAY	CRCW0603100K0FKEA
	203-5457	499K 0603 1% .1W	VISHAY	CRCW0603499K0FKEA
	203-0920	1M 0603 1% .1W	VISHAY	CRCW06031M00FKEA

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Resistors	0805			
	EMS#	DESCRIPTION	MFG	MFG#
	204-4743	0 0805 JUMPER .125W	VISHAY	CRCW08050000Z0EA
	204-4017	10 0805 1% .125W	PANASONIC	ERJ-6ENF10R0V
	204-3864	47 0805 5% .125W	VISHAY	CRCW080547R0JNEA
	204-0596	100 0805 1% .125W	KOA	RK73H2ATTD1000F
	204-6480	220 0805 1% 0.125W	VISHAY	CRCW0805220RFKEA
	204-5093	300 0805 1% .125W	VISHAY	CRCW0805300RFKEA
	204-1115	470 0805 1% .125W	KOA	RK73H2ATTD4700F
	204-0100	1K 0805 1% .125W	VISHAY	CRCW08051K00FKEA
	204-1068	2K 0805 1% .125W	KOA	RK73H2ATTD2001F
	204-5097	2.49K 0805 1% .125W	VISHAY	CRCW08052K49FKEA
	204-2016	3.32K 0805 .1% .125W	PANASONIC	ERA-6AEB332V
	204-4793A	4.7K 0805 1% .125W	VISHAY	CRCW08051K0FKEA
	204-5223	4.99K 0805 1% .125W	VISHAY	CRCW08054K99FKEA
	204-0102A	10K 0805 1% .125W	VISHAY	CRCW080510K0FKEA
	204-2010	20K 0805 1% .125W	KOA	RK73H2ATTD2002F
	204-4741	47K 0805 1% .125W	VISHAY	CRCW080547K0FKEA
	204-1080	100K 0805 1% .125W	KOA	RK73H2ATTD1003F
	204-7238	499K 1% 0805 .125W	KOA	RK73H2ATTD4993F
	204-1082	1M 0805 1% .125W	KOA	RK73H2ATTD1004F

Resistors	1206			
	EMS#	DESCRIPTION	MFG	MFG#
	205-0093A	0 1206 5%	VISHAY	CRCW12060000Z0EA
	205-0738	10 1206 1% .25W	VISHAY	CRCW120610R0FKEA
	205-3508	47 1206 5% .25W	PANASONIC	ERJ-8GEYJ470V
	205-0731	100 1206 1% .25W	VISHAY	CRCW1206100RFKEA
	205-0861	220 1206 1% .25W	VISHAY	CRCW1206220RFKEA
	205-7264	330 1206 1% .25W	VISHAY	CRCW1206330RFKEA
	205-7262	470 1206 1% .25W	VISHAY	CRCW1206470RFKEA
	205-0723	499 1206 1% .25W	VISHAY	CRCW1206499RFKEA
	205-0004	1K 1206 1% .25W	VISHAY	CRCW12061K00FKEA
	205-2379	2K 1206 1% .25W	VISHAY	CRCW12062K00FKEA
	205-0719	4.75K 1206 1% .25W	VISHAY	CRCW12064K75FKEA
	205-0716	10K 1206 1% .25W	VISHAY	CRCW120610K0FKEA
	205-0715	20K 1206 1% .25W	VISHAY	CRCW120620K0FKEA
	205-0021	47K 1206 1% .25W	VISHAY	CRCW120647K0FKEA
	205-0711	100K 1206 1% .25W	VISHAY	CRCW1206100KFKEA
	205-4960	1M 1206 1% 0.25W	VISHAY	CRCW12061M00FKEA

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Capacitors		0402		
EMS#	DESCRIPTION	MFG	MFG#	
102-5414	18PF 50V CER 5% NPO 0402	MURATA	GRM1555C1H180JA01D	
102-4643	22PF 16V CER 5% COG 0402	KEMET	C0402C220J4GACTU	
102-4564	100PF 50V CER NPO 0402	MURATA	GRM1555C1H101JA01D	
102-5033	1000PF 6.3V CER 10% X7R 0402	KEMET	C0402C102K9RACTU	
102-4596	.01UF 50V CER 10% X7R 0402	MURATA	GRM155R71H103KA88D	
102-0889	.1UF 16V CER 10% X7R 0402	MURATA	GRM155R71C104KA88D	
102-7133	.22UF 10V 10% CER X5R 0402	MURATA	GRM155R61A224KE19D	

Capacitors		0603		
EMS#	DESCRIPTION	MFG	MFG#	
103-4097	18PF 50V CER 5% NPO 0603	YAGEO	0603CG180J9B200	
103-0017	20PF 50V CER 5% COG 0603	MURATA	GRM1885C1H200JA01D	
103-0892	22PF 50V CER 5% NPO 0603	MURATA	GRM1885C1H220JA01D	
103-0896	0.001UF 50V CER 5% X7R 0603	MURATA	GRM188R71H102JA01D	
103-3817	0.01UF 50V CER 10% X7R 0603	TDK	C1608X7R1H103K080AA	
103-0893	0.1UF 50V CER 10% X7R 0603	SAMSUNG	CL10B104KB8NNNC	
103-2902	1UF 25V CER 10 % X7R 0603	KEMET	C0603C105K3RACTU	

Capacitors		0805		
EMS#	DESCRIPTION	MFG	MFG#	
104-1987	0.001UF 50V CER 10% X7R 0805	KEMET	C0805C102K5RACT	
104-0087	0.01UF 50V CER 10% X7R 0805	AVX	08055C103KAT2A	
104-0088	0.1UF 50V CER 10% X7R 0805	AVX	08055C104KAT2A	
104-0089	1UF 16V CER 10% X7R 0805	AVX	0805YC105KAT2A	
104-6345	1UF 25V CER 10% X7R 0805	TDK-LAMBDA	C2012X7R1E105K125AB	
104-4831	1UF 50V CER X7R 10% 0805	KEMET	C0805C105K5RACTU	
104-6513	2.2UF 25V CER 10% X7R 0805	MURATA	GRM21BR71E225KA73L	
104-2905	3.3UF 25V CER 10% X5R 0805	MURATA	GRM21BR61E335KA12L	
104-2565	10UF 25V CER 10% X5R 0805	MURATA	GRM21BR61E106KA73L	

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Capacitors	1206			
	EMS#	DESCRIPTION	MFG	MFG#
	105-0226	.01UF 50V CER 10% X7R 1206	YAGEO	CC1206KRX7R9BB103
	105-0227	.1UF 50V CER 10% X7R 1206	KEMET	C1206C104K5RACTU
	105-0675A	1UF 25V 10% CER X7R 1206	AVX	12063C105KAT2A
	105-2409	1UF 50V CER 10% X7R 1206	TDK-LAMBDA	C3216X7R1H105KT
	105-4594	4.7UF 50V CER 10% X7R 1206	AVX	12065C475KAT2A
	105-3133	4.7UF 25V CER X7R 10% 1206	MURATA	GRM31CR71E475KA88L
	105-3843	10uF 50V CER 10% X5R 1206	MURATA	GRM31CR61H106KA12L
	105-0890	10UF 25V CER 10% X5R 1206	MURATA	GRM31CR61E106KA12L

Capacitors	1210			
	EMS#	DESCRIPTION	MFG	MFG#
	106-1994	10UF 25V CER 10% X7R 1210	MURATA	GRM32DR71E106KA12L
	106-7047	22UF 16V CER 20% X7R 1210	TDK	C3225X7R1C226M250AC
	106-3846	47UF 10V CER 10% X5R 1210	MURATA	GRM32ER61A476KE20K

Capacitors	1812			
	EMS#	DESCRIPTION	MFG	MFG#
	107-4057	100UF 10V CER 20% X5R 1812	TDK	C4532X5R1A107M280KC

### SMT ELECTROLYTIC

Capacitors				
	EMS#	DESCRIPTION	MFG	MFG#
	108-0190A	100UF 25V ELECT 20% 6.3MMx8MM	NICHICON	NACZ101M25V 6.3X8TR13F
	108-1992	100UF 35V ELECT 20% 6.3MMx8MM	NICHICON	NACE101M35V6.3X8TR13F
	108-0900	220UF 16V ELECT 20% 6.3MMx8MM	NICHICON	NACZ221M16V6.3X8TR13F
	108-0092	220UF 50V ELECT 20% 10MMx10.2MM CAN G	PANSONIC	EEE-FK1H221P
	108-5262	330UF 35V ELEC 20% 10MMx10MM	NICHICON	UWT1V331MNL1GS

### TANTALUM

Capacitors				
	EMS#	DESCRIPTION	MFG	MFG#
	111-0901	10UF 10V TANT 10% SIZE A	KEMET	T491A106K010AT

111-0026	100UF 10V TANT 10% SIZE D	KEMET	T495D107K010ATE100
111-2406A	47UF 25V TANT 10% 7343 SIZE D	KEMET	T491D476K025AT
111-6073	10UF 16V 10% TAN SIZE B	AVX	TAJB106K016RNJ
111-1993	2.2UF 35V TANT 10% SIZE C	KEMET	T491C225K035AT
111-3103	4.7UF 25V TANT 20% SIZE A	KEMET	T491A475M025AT
111-0008	1UF 25V TANT 10% SIZE A	KEMET	T491A105K025AT

**EMS, Inc.**   
 Electronic Manufacturing Solutions

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Capacitors	0805			
	EMS#	DESCRIPTION	MFG	MFG#
	601-0964	RED 626NM 10MCD 2.1V DIFF 0805 MSL-3	AGILENT	HSMS-C170