

Capacitors



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● RADIAL LEAD



BP Series

Brand : AISHI

Miniature Size
Standard Bi-polarized
Endurance: 2,000 hours at +85°C
Temperature range -40° to +85°

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0022-7	BP1KM3R3E11OT	3.3uF	100V	BULK



H7 Series

Brand : AISHI

Miniature Series 7mm height
Endurance: 1,000 hours at +105°C
Wide Temperature range of -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0060-7	H71AM470C07OT	47uF	10V	BULK
825-0074-3	H7OJM101D07OT	100uF	6.3V	BULK



L7 Series

Brand : AISHI

Miniature Series 7mm height
Endurance: 2,000 hours at +105°C
Wide Temperature range of -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0091-2	L71EM470E07OT	47uF	25V	BULK

● RADIAL LEAD



RE Series

Brand : AISHI

Miniature Size
 Low impedance for high frequency
 Suitable for switching power, UPS, power source etc.
 Endurance: 2,000 to 4,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0097-0	RE1CM101E110T	100uF	16V	BULK
825-0081-8	RE1CM101E11P50T	100uF	16V	TAPE AMMO PACK
825-0085-0	RE1VM101F11BT	100uF	35V	TAPE AMMO
825-0094-1	RE1JM221G200T	220uF	63V	BULK
825-0116-1	RE1CM471F120T	470uF	16V	BULK
825-0071-4	RE1CM471F12PT	470uF	16V	TAPE AMMO
825-0095-4	RE1EM471G13BT	470uF	25V	TAPE AMMO
825-0106-6	RE1CM681G12BT	680uF	16V	TAPE AMMO
825-0058-7	RE1CM222K250T	2200uF	16V	BULK



RR Series

Brand : AISHI

Miniature Size
 High Frequency, low impedance, high reliability
 Endurance: 2,000 hours at +105°C
 Suitable for switching power, UPS, power source etc.

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0093-8	RR1HM010D11PT	1uF	50V	TAPE AMMO
825-0079-8	RR1HM2R2D11PT	2.2uF	50V	TAPE AMMO
825-0127-7	ERR1EM470D110T	47uF	25V	BULK
825-0035-0	RR1CM101E11BT	100uF	16V	TAPE AMMO
825-0128-1	ERR1VM101F110T	100uF	35V	BULK
825-0122-2	ERR1EM221F110T	220uF	25V	BULK
825-0121-9	ERR1CM471F120T	470uF	16V	BULK
825-0129-3	ERR1CM102G200T	1000uF	16V	BULK

● RADIAL LEAD



RS Series

Brand : AISHI

Miniature Size
 High performance, high reliability
 Low impedance, high ripple current, long life
 Endurance: 4,000 to 10,000 hours +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0130-1	ERS1EM101E11B25TM	100uF	25V	TAPE AMMO PACK



WH Series

Brand : AISHI

Miniature Size
 Standard series for general purpose
 Endurance: 2,000 hours at +105°C
 Wide Temperature range from -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0067-8	WH1HM2R2D11OT	2.2uF	50V	BULK
825-0092-5	WH1HM2R2D11PT	2.2uF	50V	TAPE AMMO
825-0089-2	WH2GM4R7G16OT	4.7uF	400V	BULK
825-0042-5	WH1HM100D11OT	10uF	50V	BULK
825-0055-8	WH1CM220D11OT	22uF	16V	BULK
825-0115-7	WH1HM220D11OT	22uF	50V	BULK
825-0056-1	WH1CM470D11OT	47uF	16V	BULK
825-0021-4	WH1EM470D11OT	47uF	25V	BULK
825-0078-5	WH1EM101E11OT	100uF	25V	BULK
825-0100-8	EW1VM101E11OT	100uF	35V	BULK
825-0105-3	WH1HM101F11OT	100uF	50V	BULK
825-0065-2	WH1KM101G20OT	100uF	100V	BULK
825-0072-7	WH1CM221E11PT	220uF	100V	TAPE AMMO
825-0017-8	WH1EM221F11OT	220uF	25V	BULK
825-0037-6	WH1HM221G13OT	220uF	50V	BULK

● RADIAL LEAD

>> WH Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0057-4	WH1EM471G13OT	470uF	25V	BULK
825-0077-2	WH1JM471K20OT	470uF	63V	BULK
825-0019-4	WH1KM471L25OT	470uF	100V	BULK
825-0053-2	WH1EM102G20OT	1000uF	25V	BULK
825-0099-6	EW1VM102K20OT	1000uF	35V	BULK
825-0054-5	WH1VM102K20OT	1000uF	35V	BULK
825-0036-3	WH1KM102M40OT	1000uF	100V	BULK
825-0030-5	WH1CM222K20OT	2200uF	16V	BULK
825-0018-1	WH1EM222K25OT	2200uF	25V	BULK
825-0020-1	WH1VM222L25OT	2200uF	35V	BULK

WK Series

Brand : AISHI

Miniature Size
Standard series for general purpose
Endurance: 2,000 hours at +85°C



ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0045-4	WK1HMR47D11OT	0.47uF	50V	BULK
825-0011-0	WK1HM010D11OT	1uF	50V	BULK
825-0012-3	WK1HM010D11XT	1uF	50V	TAPE AMMO PACK
825-0087-6	WK1KM010D11OT	1uF	100V	BULK
825-0029-8	WK2GM010E12OT	1uF	400V	BULK
825-0088-9	WK1HM2R2D11PT	2.2uF	50V	TAPE & REEL
825-0031-8	WK1HM2R2D11OT	2.2uF	50V	BULK
825-0096-7	WK1KM3R3D11OT	3.3uF	100V	BULK
825-0032-1	WK1HM4R7D11OT	4.7uF	50V	BULK
825-0066-5	WK2GM4R7F12OT	4.7uF	400V	BULK
825-0076-9	WK1CM100D11PT	10uF	16V	TAPE AMMO
825-0009-0	WK1CM100D11OT	10uF	16V	BULK

● RADIAL LEAD

>> WK Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0004-5	WK1EM100D11OT	10uF	25V	BULK
825-0101-1	EWK1EM100D11OT	10uF	25V	BULK
825-0007-4	WK1HM100D11OT	10uF	50V	BULK
825-0086-3	WK1HM100D11XT	10uF	50V	BULK
825-0025-6	WK2EM100G12OT	10uF	250V	BULK
825-0038-9	WK2WM100G20OT	10uF	450V	BULK
825-0050-3	WK1CM220D11OT	22uF	16V	BULK
825-0026-9	WK1KM220F11OT	22uF	100V	BULK
825-0013-6	WK1CM470D11OT	47uF	16V	BULK
825-0083-4	WK1EM470D11OT	47uF	25V	BULK
825-0034-7	WK1HM470E11OT	47uF	50V	BULK
825-0046-7	WK2GM470L25OT	47uF	400V	BULK
825-0090-9	WK1AM101D11PT	100uF	10V	TAPE AMMO
825-0008-7	WK1CM101D11OT	100uF	16V	BULK
825-0005-8	WK1EM101E11OT	100uF	25V	BULK
825-0062-3	WK1VM101E11OT	100uF	35V	BULK
825-0104-0	EWK1CM221E11OT	220uF	16V	BULK
825-0103-7	WK1EM221F11OT	220uF	25V	BULK
825-0102-4	EWK1EM221F11OT	220uF	25V	BULK
825-0003-2	WK1VM221F12OT	220uF	35V	BULK
825-0027-2	WK1JM221G16OT	220uF	63V	BULK
825-0015-2	WK1CM331F11OT	330uF	16V	BULK
825-0073-0	WK1EM331F12OT	330uF	25V	BULK
825-0051-6	WK1VM331G13OT	330uF	35V	BULK
825-0063-6	WK1HM331G16OT	330uF	50V	BULK
825-0023-0	WK2DM331M35OT	330uF	200V	BOX
825-0016-5	WK1CM471F12OT	470uF	16V	BULK
825-0024-3	WK1EM471G13OT	470uF	25V	BULK
825-0134-2	EWK1VM471G16OT	470uF	35V	BULK
825-0047-0	WK1VM471G16OT	470uF	35V	BULK
825-0064-9	WK1HM471G20OT	470uF	50V	BULK
825-0048-3	WK1JM471K20OT	470uF	63V	BULK

● RADIAL LEAD

>> WK Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0002-9	WK1CM102G16OT	1000uF	16V	BULK
825-0028-5	WK1EM102G20OT	1000uF	25V	BULK
825-0006-1	WK1HM102K25OT	1000uF	50V	BULK
825-0059-0	WK1AM222G20OT	2200uF	10V	BULK
825-0070-1	WK1CM222K20OT	2200uF	16V	BULK
825-0014-9	WK1VM222L25OT	2200uF	35V	BULK
825-0041-2	WK1HM222L30OT	2200uF	50V	BULK
825-0049-6	WK1EM332L25OT	3300uF	25V	BOX
825-0112-8	WK1HM332M35OT	3300uF	50V	BULK
825-0061-0	WK1CM472L25OT	4700uF	16V	BULK
825-0010-7	WK1EM472L30OT	4700uF	25V	BULK
825-0084-7	WK1VM472M35OT	4700uF	35V	BOX
825-0068-1	WK1EM103M40OT	10000uF	25V	BOX



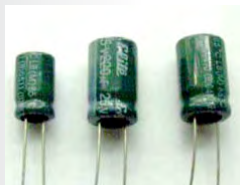
EG Series

Brand : ELITE

Low impedance and High ripple current
 Load life 3,000 to 6,000 hours at +105°C
 Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0458-6	EG1H470MNN6311	47uF	50V	BULK

● RADIAL LEAD

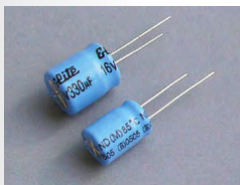


LB Series

Brand : ELITE

Low leakage current
Endurance: 2,000 hours at +85°C
Temperature range -40° to +85°

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0258-6	LB-47M25	47uF	25V	BULK
062-0255-7	LB-220M25	220uF	25V	BULK

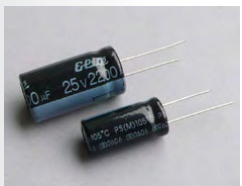


ND Series

Brand : ELITE

Standard non-polarized type
Endurance: 2,000 hours +85°C
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0018-0	ND-3.3M50	3.3uF	50V	BULK
062-0454-4	ND2A3R3MNN6311	3.3uF	100V	BULK
062-0276-8	ND-4.7M100	4.7uF	100V	BULK



PS Series

Brand : ELITE

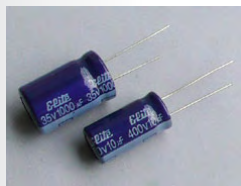
Standard downsized
Endurance: 1,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0464-8	PS1H010MNN0511	1uF	50V	BULK
062-0042-4	PS-4.7M250	4.7uF	250V	BULK

● RADIAL LEAD

>> PS Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0435-9	PS1C220MNN0511	22uF	16V	BULK
062-0213-5	PS-47M35	47uF	35V	BULK
062-0489-1	PS1J470MNN6311	47uF	63V	BULK
062-0489-1	PS1J101MNN1012	100uF	63V	BULK
062-0489-1	PS-100M250	100uF	250V	BULK
062-0489-1	PS-220M16-T	220uF	16V	TAPE AMMO PACK
062-0489-1	PS1A102MNN1012	1000uF	10V	BULK
062-0489-1	PS-1000M25	1000uF	25V	BULK
062-0489-1	PS1J102MNN1625	1000uF	63V	BULK
062-0489-1	PS-3300M25	3300uF	25V	BULK



SM Series

Standard downsized

Endurance: 2,000 hours at +85°C

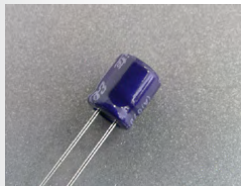
Brand : ELITE

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0493-7	SM1HR10MNN0511	0.1uF	50V	BULK
062-0580-9	SM1HR22MNN0511	0.22uF	50V	BULK
062-0589-6	SM1HR33MNN0511	0.33uF	50V	BULK
062-0374-7	SM-0.33M50-L	0.33uF	50V	BULK
062-0397-4	SM-0.33M50-T	0.33uF	50V	TAPE AMMO PACK
062-0585-4	SM1HR47MNN0511	0.47uF	50V	BULK
062-0437-5	SM1E2R2MNN0511	2.2uF	25V	BULK
062-0088-8	SM-2.2M50-OFFER	2.2uF	50V	BULK
062-0503-6	SM2A2R2MNN0511	2.2uF	100V	BULK
062-0202-8	SM-2.2M250-T2.5	2.2uF	250V	TAPE AMMO PACK
062-0108-1	SM-3.3M25	3.3uF	25V	BULK
062-0340-3	SM-4.7M25-L	4.7uF	25V	BULK
062-0127-6	SM-4.7M50-T	4.7uF	50V	TAPE AMMO PACK
062-0439-1	SM1H4R7MNN0511	4.7uF	50V	BULK

● RADIAL LEAD

>> SM Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0125-0	SM-4.7M250	4.7uF	250V	BULK
062-0074-2	SM-10M6.3	10uF	6.3V	BULK
062-0233-3	SM-22M16-T2.5	22uF	16V	TAPE AMMO PACK
062-0226-8	SM-22M16-T2.0	22uF	16V	TAPE AMMO PACK
062-0565-6	SM1C220MNN0511	22uF	16V	BULK
062-0118-5	SM-33M16	33uF	16V	BULK
062-0120-5	SM-33M35	33uF	35V	BULK
062-0474-2	SM1C470MPN0511	47uF	16V	TAPE AMMO PACK
062-0535-4	SM1E470MNN0511	47uF	25V	BULK
062-0162-7	SM-47M100	47uF	100V	BULK
062-0586-7	SM2G470MNN1625	47uF	400V	BULK
062-0490-8	SM1C221MNN6311	220uF	16V	BULK
062-0172-1	SM-220M25-T	220uF	25V	TAPE AMMO PACK
062-0560-1	SM2D331MNN1836	330uF	200V	BULK
062-0582-5	SM1E471MPN1012	470uF	25V	TAPE AMMO PACK
062-0574-7	SM1H471MNN1020	470uF	50V	BULK
062-0137-0	SM-470M50	470uF	50V	BULK
062-0053-1	SM-1000M16-T	1000uF	16V	TAPE AMMO PACK
062-0511-4	SM1A222MNN1020	2200uF	10V	BULK
062-0177-6	SM-2200M63	2200uF	63V	BULK
062-0516-9	SM1C472MNN1625	4700uF	16V	BULK



SS Series

Standard Miniature with 7mm height
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours at +85°C

Brand : ELITE

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
062-0350-7	SS-22M6.3	22uF	6.3V	BULK

● RADIAL LEAD



RE2 Series

Brand : ELNA

Miniature standard product
 Guarantee operation for 2,000 hours at +85°C
 Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
093-0109-5	CE-22M100V-85C	22uF	100V	BULK



RJ3 Series

Brand : ELNA

Miniature size, Standard capacitors
 Guarantees 2,000 hours at +105 °C
 Anti-cleaning solvent 250V max.
 Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
093-0090-9	RJ3-400V330MAX	33uF	400V	BULK



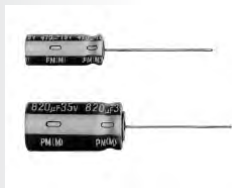
MA Series

Brand : NICHICON

Standard series with 5mm height for General purpose
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours at +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0091-4	UMA1V4R7MDA1TP	4.7uF	35V	TAPE AMMO PACK

● RADIAL LEAD



PM Series

Brand : NICHICON

Extremely Low Impedance
High reliability withstanding 5,000 hours load life at +105°C
Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0057-6	UPM1E470MED	47uF	25V	BULK
289-0206-3	UPM1E101MED	100uF	25V	BULK
289-0062-5	UPM1J471MHD	470uF	63V	BULK
289-0065-4	UPM1V561MHD	560uF	35V	BULK
289-0052-1	UPM0J332MHD	3300uF	6.3V	BULK

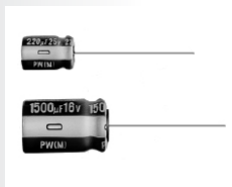


PS Series

Brand : NICHICON

Miniature Sized, Low Impedance for Switching Power Supplies
Wide temperature range -55°C to +105°C
Endurance: 3,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0034-9	UPS1E100MDD	10uF	25V	BULK



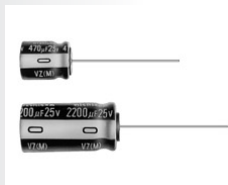
PW Series

Brand : NICHICON

Miniature Sized, Low Impedance
High reliability withstanding for Switching Power Supplies
Endurance: 2,000 hours to 8,000 hours at +105°C
Anti-solvent

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0076-1	UPW1E101MED	100uF	25V	BULK
289-0254-7	UPW2E101MRD6	100uF	250V	BULK
289-0225-8	UPW0J153MHD	15000uF	6.3V	BULK

● RADIAL LEAD



VZ Series

Brand : NICHICON

Wide Temperature range of -55°C to +105°C
 Endurance: 1,000 hours at +105°C
 Anti-solvent

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0242-7	UVZ1H332MHD	3.3nF	50V	BULK
289-0107-1	UVZ1C220MDD	22uF	16V	BULK

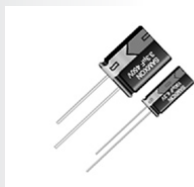


MA Series

Brand : PANASONIC

Endurance: 2,000 hours at +85°C
 Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0117-3	ECA-1CM103	10000uF	16V	BULK



GF Series

Brand : SAMXON

High ripple current, Low impedance for high frequency
 Lifetime 2,000 to 4,000 hours at +105°C
 Temperature range -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0178-2	EGF225M1HD11TCSAP	2.2uF	50V	TAPE AMMO PACK
566-0116-2	EGF107M1VF12TVSAP	100uF	35V	TAPE AMMO PACK
566-0122-4	EGF477M1CF12TCSAP	470uF	16V	TAPE AMMO PACK

● RADIAL LEAD

>> GF Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0251-8	EGF477M1EF16TCTHP	470uF	25V	TAPE AMMO PACK
566-0240-1	EGF477M1EG16TCTHP	470uF	25V	TAPE AMMO PACK
566-0241-4	EGF477M1VG16RRTHP	470uF	35V	TAPE AMMO PACK
566-0230-7	EGF108M1AF16RRSHP	1000uF	10V	BULK
566-0237-8	EGF108M1AF16RRTHP	1000uF	10V	BULK
566-0247-2	EGF108M1CG16TCTHP	1000uF	16V	TAPE & REEL
566-0069-6	EGF108M1CG20RRSAP	1000uF	16V	BULK

GS Series

Brand : SAMXON



Standard series, High CV value

Guarantee 2,000 hours load life at +85°C

for electronics circuit in color TV receiver, Videocoder etc.

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0100-0	EGS104M1HD11RRSAP	0.1uF	50V	BULK
566-0192-2	EGS104M1HD11TCSAP	0.1uF	50V	PACK
566-0155-5	EGS224M1HD11RRSAP	0.22uF	50V	BULK
566-0036-5	EGS334M1HD11RRSAP	0.33uF	50V	BULK
566-0135-7	EGS105M1HD11RRSAP	1uF	50V	BULK
566-0126-6	EGS105M1HD11TUSAP	1uF	50V	TAPE AMMO PACK
566-0238-1	EGF105M1HD11TCSHP	1uF	50V	BULK
566-0171-1	EGS105M1HD11TCSAP	1uF	50V	TAPE AMMO PACK
566-0128-2	EGS105M2AD11RRSAP	1uF	100V	BULK
566-0181-5	EGS225M2EE11RRSAP	2.2uF	250V	BULK
566-0176-6	EGS335M1HD11RRSAP	3.3uF	50V	BULK
566-0029-0	EGS475M1HD11RRSAP	4.7uF	50V	BULK
566-0195-1	EGS475M2AD11RRSAP	4.7uF	100V	BULK
566-0152-6	EGS475M2EE11RRSAP	4.7uF	250V	BULK
566-0112-0	EGS475M2GF12RRSAP	4.7uF	400V	BULK
566-0145-1	EGS106M1CD11TCSAP	10uF	16V	TAPE AMMO PACK
566-0024-5	EGS106M1CD11RRSAP	10uF	16V	BULK
566-0200-5	EGS106M1ED11TCSAP	10uF	25V	TAPE AMMO PACK

● RADIAL LEAD

>> GS Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0095-6	EGS106M1ED11RRSAP	10uF	25V	BULK
566-0021-6	EGS106M1VD11RRSAP	10uF	35V	BULK
566-0193-5	EGS106M1VD11TCSAP	10uF	35V	TAPE AMMO PACK
566-0119-1	EGS106M1HD11TUSAP	10uF	50V	TAPE AMMO PACK
566-0151-3	EGS106M1HD11TCSAP	10uF	50V	TAPE AMMO PACK
566-0081-0	EGS106M1JD11RRSAP	10uF	63V	BULK
566-0053-4	EGS226M1CD11RRSAP	22uF	16V	BULK
566-0188-6	EGS226M1ED11TCSAP	22uF	25V	PACK
566-0020-3	EGS226M1ED11RRSAP	22uF	25V	BULK
566-0125-3	EGS226M1HD11TCSAP	22uF	50V	TAPE AMMO PACK
566-0099-8	EGS226M1HD11RRSAP	22uF	50V	BULK
566-0154-2	EGS226M2AE11RRSAP	22uF	100V	BULK
566-0120-8	EGS226M2GI20TCSAP	22uF	400V	TAPE AMMO PACK
566-0083-6	EGS336M1ED11RRSAP	33uF	25V	BULK
566-0084-9	EGS336M1VD11RRSAP	33uF	35V	BULK
566-0150-0	EGS336M1VD11TCSAP	33uF	35V	TAPE AMMO PACK
566-0189-9	EGS476M1AD11TCSAP	47uF	10V	TAPE AMMO PACK
566-0235-2	EGS476M1AD11HESAP	47uF	10V	BULK
566-0098-5	EGS476M1CD11RRSAP	47uF	16V	BULK
566-0190-6	EGS476M1CD11TCSAP	47uF	16V	PACK
566-0149-3	EGS476M1ED11TCSAP	47uF	25V	TAPE AMMO PACK
566-0026-1	EGS476M1VD11RRSAP	47uF	35V	BULK
566-0087-8	EGS476M1HE11RRSAP	47uF	50V	BULK
566-0202-1	EGS476M2AG1BRRSAP	47uF	100V	BULK
566-0028-7	EGS476M2GK25RRSAP	47uF	400V	BOX
566-0075-8	EGS107M1AD11RRSAP	100uF	10V	BULK
566-0170-8	EGS107M1AD11TCSAP	100uF	10V	TAPE AMMO PACK
566-0008-9	EGS107M1CD11RRSAP	100uF	16V	BULK
566-0022-9	EGS107M1CD11TCSAP	100uF	16V	TAPE AMMO PACK
566-0045-6	EGS107M1EE11RRSAP	100uF	25V	BULK
566-0208-9	EGS107M1EE11TCSAP	100uF	25V	TAPE AMMO PACK
566-0242-7	EGS107M1VE11TCSAP	100uF	35V	TAPE AMMO PACK

● RADIAL LEAD

>> GS Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0101-3	EGS107M1VE11RRSAP	100uF	35V	BULK
566-0016-7	EGS107M1HF12RRSAP	100uF	50V	BULK
566-0130-2	EGS107M1HF12RRS1P	100uF	50V	BULK
566-0082-3	EGS107M1JG1BRRSAP	100uF	63V	BULK
566-0163-3	EGS107M2EK25RRSAP	100uF	250V	BULK
566-0072-9	EGS227M1AD11RRSAP	220uF	10V	BULK
566-0094-3	EGS227M1CE11TCSAP	220uF	16V	TAPE AMMO PACK
566-0012-5	EGS227M1CE11RRSAP	220uF	16V	BULK
566-0220-3	EGS227M1EF12TCSAP	220uF	25V	TAPE AMMO PACK
566-0013-8	EGS227M1EF12RRSAP	220uF	25V	BULK
566-0014-1	EGS227M1VF12RRSAP	220uF	35V	BULK
566-0074-5	EGS227M1HG1BRRSAP	220uF	50V	BULK
566-0051-8	EGS337M1CF12RRSAP	330uF	16V	BULK
566-0146-4	EGS337M1CE11TCSAP	330uF	16V	TAPE AMMO PACK
566-0205-0	EGS337M2DL35RRSHP	330uF	200V	BULK
566-0243-0	EGS477M1CF12TCSAP	470uF	16V	TAPE AMMO PACK
566-0035-2	EGS477M1CF12RRSAP	470uF	16V	BULK
566-0007-6	EGS477M1EG1BRRSAP	470uF	25V	BULK
566-0006-3	EGS477M1EG1BTCSAP	470uF	25V	TAPE AMMO PACK
566-0034-9	EGS477M1VG16RRSAP	470uF	35V	BULK
566-0194-8	EGS477M1VG16TCSAP	470uF	35V	TAPE AMMO PACK
566-0187-3	EGS477M1HG20TCSAP	470uF	50V	TAPE AMMO PACK
566-0103-9	EGS477M1HG20RRSAP	470uF	50V	BULK
566-0039-4	EGS477M1J120RRSAP	470uF	63V	BULK
566-0079-0	EGS477M2AK25RRSAP	470uF	100V	BOX
566-0080-7	EGS108M1AG1BRRSAP	1000uF	10V	BULK
566-0048-5	EGS108M1CG16RRSAP	1000uF	16V	BULK
566-0096-9	EGS108M1EG20RRSAP	1000uF	25V	BULK
566-0191-9	EGS108M1EG20TCSAP	1000uF	25V	PACK
566-0049-8	EGS108M1VI20RRSAP	1000uF	35V	BULK
566-0046-9	EGS108M1HI25RRSAP	1000uF	50V	BULK
566-0037-8	EGS108M1JK25RRSAP	1000uF	63V	BOX

● RADIAL LEAD

>> GS Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0073-2	EGS228M1AG20RRSAP	2200uF	10V	BULK
566-0124-0	EGS228M1CI20RRSAP	2200uF	16V	BULK
566-0015-4	EGS228M1EI25RRSAP	2200uF	25V	BULK
566-0123-7	EGS228M1VK25RRSAP	2200uF	35V	BOX
566-0050-5	EGS228M1HK30RRSAP	2200uF	50V	BOX
566-0027-4	EGS338M1CI25RRSAP	3300uF	16V	BULK
566-0043-0	EGS338M1EK25RRSAP	3300uF	25V	BOX
566-0089-4	EGS478M1CK25RRSAP	4700uF	16V	BOX
566-0011-2	EGS478M1EK30RRSAP	4700uF	25V	BOX
566-0105-5	EGS478M1VL35RRSAP	4700uF	35V	BOX
566-0076-1	EGS478M1HL40RRSAP	4700uF	50V	BOX



KM Series

Brand : SAMXON

Standard series

Rated working voltage rang 6.3 to 100V DC
at temperature range -40°C to +105°C

Rated working voltage rang 160 to 450V DC
at temperature range -25°C to +105°C

Load life 1,000 to 2,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0010-9	EKM105M1HD11RRSAP	1uF	50V	BULK
566-0174-0	EKM105M1HD11TCSAP	1uF	50V	TAPE AMMO PACK
566-0223-2	EKM225M1HD11TCSAP	2.2uF	50V	TAPE AMMO PACK
566-0113-3	EKM225M1HD11RRSAP	2.2uF	50V	BULK
566-0138-6	EKM475M1HD11RRSAP	4.7uF	50V	BULK
566-0160-4	EKM475M2GG16RRSAP	4.7uF	400V	BULK
566-0199-3	EKM106M1VD11TCSAP	10uF	35V	TAPE AMMO PACK
566-0182-8	EKM106M1HD11TCSAP	10uF	50V	TAPE AMMO PACK
566-0009-2	EKM106M1HD11RRSAP	10uF	50V	BULK
566-0129-5	EKM106M2EG1BRRSAP	10uF	250V	BULK
566-0245-6	EKM226M1AD11TCSHP	22uF	10V	TAPE AMMO PACK
566-0061-2	EKM226M1CD11RRSAP	22uF	16V	BULK
566-0196-4	EKM226M1CD11TCSAP	22uF	16V	BULK

● RADIAL LEAD

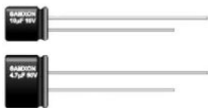
>> KM Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0261-2	EKM226M1HD11HESAP	22uF	50V	BULK
566-0217-0	EKM476M1CD11TCSAP	47uF	16V	BULK
566-0221-6	EKM476M1VD11TCSAP	47uF	35V	TAPE AMMO PACK
566-0066-7	EKM476M1JE11RRSAP	47uF	63V	BULK
566-0172-4	EKM107M1AD11TCSAP	100uF	10V	TAPE AMMO PACK
566-0252-1	EKM107M1CD11TCSHP	100uF	16V	TAPE AMMO PACK
566-0173-7	EKM107M1EE11TCSAP	100uF	25V	TAPE AMMO PACK
566-0018-3	EKM107M1VE11RRSAP	100uF	35V	BULK
566-0186-0	EKM107M1VE11TCSAP	100uF	35V	BULK
566-0055-0	EKM107M1HF12RRSAP	100uF	50V	BULK
566-0056-3	EKM107M1JF12RRSAP	100uF	63V	BULK
566-0109-7	EKM107M2AG16RRSAP	100uF	100V	BULK
566-0270-3	EKM227M1VF12TCSAP	220uF	35V	TAPE AMMO PACK
566-0047-2	EKM227M1HG1BRRSAP	220uF	50V	BULK
566-0250-5	EKM477M1EG1BTCSAP	470uF	25V	TAPE AMMO PACK
566-0067-0	EKM477M1EG1BRRSAP	470uF	25V	BULK
566-0204-7	EKM477M2AK25RRSHP	470uF	100V	BOX
566-0057-6	EKM108M1CG16RRSAP	1000uF	16V	BULK
566-0222-9	EKM108M1EG20TCSAP	1000uF	25V	BOX
566-0058-9	EKM108M1EG20RRSAP	1000uF	25V	BULK
566-0183-1	EKM108M1VI20TCSAP	1000uF	35V	TAPE AMMO PACK
566-0059-2	EKM108M1VI20RRSAP	1000uF	35V	BULK
566-0184-4	EKM108M1HI25TCSAP	1000uF	50V	BULK
566-0060-9	EKM108M1JK25RRSAP	1000uF	63V	BOX
566-0062-5	EKM228M1EI25RRSAP	2200uF	25V	BULK
566-0207-6	EKM338M1EK25RRSAP	3300uF	25V	BULK

● RADIAL LEAD

NM Series

Brand : SAMXON



Nonpolar and super miniature product, 5mm height
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours at +85°C
 Suitable for use in polarity and charge circuits

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0159-7	ENM474M1HC05RRSAP	0.47uF	50V	BULK

NP Series

Brand : SAMXON



Standard non-polarized series for entertainment electronics
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours at +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0071-6	ENP105M1HD11RRSAP	1uF	50V	BULK
566-0031-0	ENP335M1HD11RRSAP	3.3uF	50V	BULK
566-0033-6	ENP335M2AE11RRSAP	3.3uF	100V	BULK

● RADIAL LEAD



SS Series

Brand : SAMXON

7(9)mmL, High C/V

The SS series is employing etched foils for higher gain effect

Temperature range -40°C to +85°C

Endurance: 1,000 hours at +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0106-8	ESS106M1CC07RRSAP	10uF	16V	BULK
566-0107-1	ESS476M0JC07RRSAP	47uF	6.3V	BULK
566-0077-4	ESS476M1AC07RRSAP	47uF	10V	BULK
566-0108-4	ESS476M1CD07TCSAP	47uF	16V	TAPE AMMO PACK
566-0201-8	ESS476M1EE07RRSAP	47uF	25V	BULK



ULG Series

Brand : SAMXON

High ripple current, Super Low ESR

Wide temperature range -55°C to +105°C

Endurance: 2,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0272-9	ULG107M1EF1ARRX0CR	100uF	25V	BULK



ULR Series

Brand : SAMXON

High ripple current, Super Low ESR than ULG Series

Wide temperature range -55°C to +105°C

Endurance: 2,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0258-9	ULR827M0JF1ARRX0CRULR	820uF	6.3V	BULK

● SNAP-IN TERMINAL



LH Series

Brand : AISHI

Large capacitance snap-in terminal
Withstanding high temperature for general purpose
Endurance: 2,000 hours at +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0113-1	LH2GM151O40KT	150uF	400V	TRAY
825-0039-2	LH1VM103P40KT	10000uF	35V	TRAY



LK Series

Brand : AISHI

Large capacitance snap-in terminal
Standard series for general purpose
Endurance: 2,000 hours at +85°C
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
825-0082-1	LK1VM103P40KT	10000uF	35V	TRAY
825-0107-9	LK1JM103R40KT	10000uF	63V	TRAY



LS Series

Brand : NICHICON

Snap-in terminal, Standard product
Withstanding 3,000 hours application
of rated ripple current at +85°C
Temperature range -25°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0071-6	LLS2G121MELZ	120uF	400V	TRAY

● SNAP-IN TERMINAL



SMH Series

Brand : NIPPON CHEMI-CON

Standard snap-in
 Endurance with ripple current : 2,000 hours at +85°C
 Non solvent resistant type
 Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
424-0002-6	ESMH201VSN681MQ40S	680uF	200V	BULK



TS-HB Series

Brand : PANASONIC

Long 3,000 hours life at +105 °C
 with high ripple current capability
 Temperature range -40°C to +105°C
 Can vent construction

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0115-7	ECEC2DB102CJ	1000uF	200V	BOX
102-0112-8	ECEC2DB152DJ	1500uF	200V	BOX



TS-UQ Series

Brand : PANASONIC

Snap-in terminal
 Endurance: 2,000 hours at +85°C
 Temperature range -25°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0123-5	EETUQ2G821LC	820uF	400V	BULK

● SNAP-IN TERMINAL



HP Series

Brand : SAMXON

Lug / Snap-in terminal, Wide temperature
 Endurance: 2,000 at +105°C
 Highly reliable capacitors that withstand under high ripple current
 Aluminum case designed explosion-proof vent
 Best for switching supplies

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0157-1	EHP337M2GQ30SWSAP	330uF	400V	BOX
566-0225-8	EHP338M1JQ35SWSHP	3300uF	63V	BOX
566-0256-3	EHP448M2DQ1LSWSHP	4400uF	200V	BOX
566-0228-7	EHP688M1KQ40SWSHP	6800uF	80V	BOX
566-0143-5	EHP159M1KQ80SWSHP	15000uF	80V	BOX



LP Series

Brand : SAMXON

Lug / Snap-in terminal, Standard
 Endurance: 2,000 at +85°C
 Terminal spacing fixed at 10mm for PC board plug in
 Aluminum case designed explosion-proof vent

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0161-7	ELP227M2EN25SWSAP	220uF	250V	BOX
566-0141-9	ELP687M2DN40SWSAP	680uF	200V	BOX
566-0264-1	ELP827M2GQ50SWSH	820uF	400V	BOX
566-0263-8	ELP827M2WQ60SWSH	820uF	450V	BOX
566-0265-4	ELP108M2GQ60SWSH	1000uF	400V	BOX
566-0091-4	ELP109M1VO40SWSAP	10000uF	35V	BOX
566-0092-7	ELP109M1KQ50SWSAP	10000uF	80V	BOX

● SCREW TERMINAL



WL Series

Brand : SAMXON

Screw terminal type, Ultra long life
 Load life of 20,000 hours application of ripple current at +85°C
 High ripple, high reliability
 Temperature range -25°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
566-0266-7	EWL338M2GT1A05SH	3300uF	400V	BOX
566-0267-1	EWL478M2GT1T05SH	4700uF	400V	BOX

● SURFACE MOUNT



WT Series

Brand : NICHICON

Chip type, Wide temperature range of to -55°C to +105°C
 Designed for SMD on high density PC board
 Anti-Solvent

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0190-6	UWT1H0R1MCL1GB	0.1uF	50V	TAPE & REEL
289-0191-9	UWT1HR22MCL1GB	0.22uF	50V	TAPE & REEL
289-0192-2	UWT1HR33MCL1GB	0.33uF	50V	TAPE & REEL
289-0193-5	UWT1HR47MCL1GB	0.47uF	50V	TAPE & REEL
289-0194-8	UWT1H010MCL1GB	1uF	50V	TAPE & REEL
289-0238-1	UWT1V2R2MCL2GB	2.2uF	35V	TAPE & REEL
289-0195-1	UWT1H2R2MCL1GB	2.2uF	50V	TAPE & REEL
289-0239-4	UWT1V3R3MCL2GB	3.3uF	35V	TAPE & REEL
289-0196-4	UWT1H3R3MCL1GB	3.3uF	50V	TAPE & REEL
289-0173-7	UWT1E4R7MCL1GB	4.7uF	25V	TAPE & REEL
289-0184-4	UWT1V4R7MCL1GB	4.7uF	35V	TAPE & REEL
289-0197-7	UWT1H4R7MCL1GB	4.7uF	50V	TAPE & REEL
289-0167-5	UWT1C100MCL1GB	10uF	16V	TAPE & REEL
289-0174-0	UWT1E100MCL1GB	10uF	25V	TAPE & REEL
289-0032-3	UWT1V100MCL1GB	10uF	35V	TAPE & REEL
289-0198-0	UWT1H100MCL1GB	10uF	50V	TAPE & REEL
289-0152-6	UWT0J220MCL1GB	22uF	6.3V	TAPE & REEL
289-0159-7	UWT1A220MCL1GB	22uF	10V	TAPE & REEL
289-0083-6	UWT1C220MCL1GB	22uF	16V	TAPE & REEL
289-0175-3	UWT1E220MCL1GB	22uF	25V	TAPE & REEL
289-0099-8	UWT1V220MCR1GB	22uF	35V	TAPE & REEL
289-0185-7	UWT1V220MCL1GB	22uF	35V	TAPE & REEL
289-0199-3	UWT1H220MCL1GB	22uF	50V	TAPE & REEL
289-0153-9	UWT0J330MCL1GB	33uF	6.3V	TAPE & REEL
289-0160-4	UWT1A330MCL1GB	33uF	10V	TAPE & REEL
289-0168-8	UWT1C330MCL1GB	33uF	16V	TAPE & REEL

● SURFACE MOUNT

>> WT Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0186-0	UWT1V330MCL1GB	33uF	35V	TAPE & REEL
289-0200-5	UWT1H330MCL1GS	33uF	50V	TAPE & REEL
289-0154-2	UWT0J470MCL1GB	47uF	6.3V	TAPE & REEL
289-0161-7	UWT1A470MCL1GB	47uF	10V	TAPE & REEL
289-0169-1	UWT1C470MCL1GB	47uF	16V	TAPE & REEL
289-0177-9	UWT1E470MCL1GB	47uF	25V	TAPE & REEL
289-0037-8	UWT1V470MCL1GS	47uF	35V	TAPE & REEL
289-0201-8	UWT1H470MCL1GS	47uF	50V	TAPE & REEL
289-0155-5	UWT0J101MCL1GB	100uF	6.3V	TAPE & REEL
289-0162-0	UWT1A101MCL1GB	100uF	10V	TAPE & REEL
289-0096-9	UWT1C101MCL1GB	100uF	16V	TAPE & REEL
289-0178-2	UWT1E101MCL1GS	100uF	25V	TAPE & REEL
289-0187-3	UWT1V101MCL1GS	100uF	35V	TAPE & REEL
289-0202-1	UWT1H101MNL1GS	100uF	50V	TAPE & REEL
289-0156-8	UWT0J221MCL1GB	220uF	6.3V	TAPE & REEL
289-0163-3	UWT1A221MCL1GS	220uF	10V	TAPE & REEL
289-0170-8	UWT1C221MCL1GS	220uF	16V	TAPE & REEL
289-0179-5	UWT1E221MNL1GS	220uF	25V	TAPE & REEL
289-0188-6	UWT1V221MNL1GS	220uF	35V	TAPE & REEL
289-0203-4	UWT1H221MNL1GS	220uF	50V	TAPE & REEL
289-0157-1	UWT0J331MCL1GS	330uF	6.3V	TAPE & REEL
289-0164-6	UWT1A331MNL1GS	330uF	10V	TAPE & REEL
289-0171-1	UWT1C331MNL1GS	330uF	16V	TAPE & REEL
289-0180-2	UWT1E331MNL1GS	330uF	25V	TAPE & REEL
289-0189-9	UWT1V331MNL1GS	330uF	35V	TAPE & REEL
289-0081-0	UWT0J471MNL1GS	470uF	6.3V	TAPE & REEL
289-0165-9	UWT1A471MNL1GS	470uF	10V	TAPE & REEL
289-0172-4	UWT1C471MNL1GS	470uF	16V	TAPE & REEL
289-0181-5	UWT1E471MNL1GS	470uF	25V	TAPE & REEL
289-0158-4	UWT0J102MNL1GS	1000uF	6.3V	TAPE & REEL
289-0166-2	UWT1A102MNL1GS	1000uF	10V	TAPE & REEL

● SURFACE MOUNT



WX Series

Brand : NICHICON

Chip type with 5.5mm height
 Load life of 2,000 hours at +85°C
 Designed for SMD on high density PC board
 Anti-Solvent

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0141-9	UWX1H0R1MCL1GB	0.1uF	50V	TAPE & REEL
289-0142-2	UWX1HR22MCL1GB	0.22uF	50V	TAPE & REEL
289-0143-5	UWX1HR33MCL1GB	0.33uF	50V	TAPE & REEL
289-0144-8	UWX1HR47MCL1GB	0.47uF	50V	TAPE & REEL
289-0145-1	UWX1H010MCL1GB	1uF	50V	TAPE & REEL
289-0134-4	UWX1V2R2MCL2GB	2.2uF	35V	TAPE & REEL
289-0146-4	UWX1H2R2MCL1GB	2.2uF	50V	TAPE & REEL
289-0135-7	UWX1V3R3MCL2GB	3.3uF	35V	TAPE & REEL
289-0147-7	UWX1H3R3MCL1GB	3.3uF	50V	TAPE & REEL
289-0128-2	UWX1E4R7MCL1GB	4.7uF	25V	TAPE & REEL
289-0136-0	UWX1V4R7MCL1GB	4.7uF	35V	TAPE & REEL
289-0148-0	UWX1H4R7MCL1GB	4.7uF	50V	TAPE & REEL
289-0123-7	UWX1C100MCL1GB	10uF	16V	TAPE & REEL
289-0137-3	UWX1V100MCL1GB	10uF	35V	TAPE & REEL
289-0149-3	UWX1H100MCL1GB	10uF	50V	TAPE & REEL
289-0111-7	UWX0J220MCL1GB	22uF	6.3V	TAPE & REEL
289-0117-5	UWX1A220MCL1GB	22uF	10V	TAPE & REEL
289-0124-0	UWX1C220MCL1GB	22uF	16V	TAPE & REEL
289-0130-2	UWX1E220MCL1GB	22uF	25V	TAPE & REEL
289-0138-6	UWX1V220MCL1GB	22uF	35V	TAPE & REEL
289-0150-0	UWX1H220MCL1GB	22uF	50V	TAPE & REEL
289-0112-0	UWX0J330MCL1GB	33uF	6.3V	TAPE & REEL
289-0118-8	UWX1A330MCL1GB	33uF	10V	TAPE & REEL
289-0125-3	UWX1C330MCL1GB	33uF	16V	TAPE & REEL
289-0139-9	UWX1V330MCL1GB	33uF	35V	TAPE & REEL
289-0151-3	UWX1H330MCL1GB	33uF	50V	TAPE & REEL

● SURFACE MOUNT

>> WX Series (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0113-3	UWX0J470MCL1GB	47uF	6.3V	TAPE & REEL
289-0119-1	UWX1A470MCL1GB	47uF	10V	TAPE & REEL
289-0126-6	UWX1C470MCL1GB	47uF	16V	TAPE & REEL
289-0132-8	UWX1E470MCL1GB	47uF	25V	TAPE & REEL
289-0140-6	UWX1V470MCL1GB	47uF	35V	TAPE & REEL
289-0120-8	UWX1A560MCL1GB	56uF	10V	TAPE & REEL
289-0114-6	UWX0J101MCL1GB	100uF	6.3V	TAPE & REEL
289-0121-1	UWX1A101MCL1GB	100uF	10V	TAPE & REEL
289-0127-9	UWX1C101MCL1GB	100uF	16V	TAPE & REEL
289-0133-1	UWX1E101MCL1GB	100uF	25V	TAPE & REEL
289-0115-9	UWX0J221MCL1GB	220uF	6.3V	TAPE & REEL
289-0122-4	UWX1A221MCL1GB	220uF	10V	TAPE & REEL
289-0116-2	UWX0J331MCL1GB	330uF	6.3V	TAPE & REEL

S Series

Brand : PANASONIC



Chip type with 5.4mm height
 Endurance : 2,000 hours at +85°C
 Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0059-0	ECEV2AA100P	10uF	100V	TAPE & REEL

● SURFACE MOUNT



TPC Series

Brand : SANYO

Chip SMD, Low profile and Low ESR products

Endurance : 2,000 hours at +105°C

Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
168-0039-2	10TPC68M	68uF	10V	TAPE & REEL

● Metallized Polyphenylene Sulfide Film

**CHA Series****Brand : NISSEI**

Stacked chip type

Suitable for flow and reflow soldering

Wide temperature range -55°C to +125°C

Endurance : 1,000 hours at +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0017-3	CHAV0050J103	10nF	50V	TAPE & REEL
222-0019-9	CHAV0050J473	47nF	50V	TAPE & REEL
222-0018-6	CHAV0050J124	0.12uF	50V	TAPE & REEL

● Metallized Polyester Film



MPE Series

Brand : AEC

Radial dipped type
High moisture resistance
Good solderability
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
158-0146-4	MPE152J2J-AEC	1.5nF	630V	BULK
158-0213-8	MPE682J2J-AEC	6.8nF	630V	BULK
158-0143-5	MPE103K2J-AEC	10nF	630V	BULK
158-0162-0	MPE223K2J-AEC	22nF	630V	BULK
158-0160-4	MPE473J2G-AEC	47nF	400V	BULK
158-0147-7	MPE473J2J-AEC	47nF	630V	BULK
158-0163-3	MPE473K2J-AEC	47nF	630V	BULK
158-0151-3	MPE104K2E-AEC	0.1uF	250V	BULK
158-0168-8	MPE104K2G-AEC	0.1uF	400V	BULK
158-0122-4	MPE104K2J-AEC	0.1uF	630V	BULK
158-0145-1	MPE224K2J-AEC	0.22uF	630V	BULK
158-0231-0	MPE474K2G-AEC	0.47uF	400V	BULK
158-0164-6	MPE474K2J-AEC	0.47uF	630V	BULK
158-0140-6	MPE105J2E-AEC	1uF	250V	BULK
158-0150-0	MPE105K2G-AEC-20MM	1uF	400V	BULK



MPE Series

Brand : CAMEL

Radial dipped type
High moisture resistance
Good solderability
Non-inductive construction and self-healing property
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
329-0023-3	MPE473J2J	47nF	630V	BULK
329-0049-9	MPE683K2J	68nF	630V	BULK

● Metallized Polyester Film



C21 (CL21) Series

Brand : FARATRONIC

Dipped type, Non-inductive wound construction
 Long life due to self-healing effect
 Flame retardant epoxy resin coating
 Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0053-5	C212J103K4AC000	0.01uF	630V	BULK
771-0054-8	C212J223K4AC000	22nF	630V	BULK
771-0055-1	C212J473K4AC000	47nF	630V	BULK
771-0060-1	C212E104K3AC000	0.1uF	250V	BULK
771-0058-1	C212G104K4AC000	0.1uF	400V	BULK
771-0056-4	C212J104K6AC000	0.1uF	630V	BULK
771-0057-7	C212J224K6AC000	0.22uF	630V	BULK
771-0015-5	C212J105KBAC000	1uF	630V	BULK



MMC Series

Brand : NISSEI

Highly reliable because of its self-healing performance
 Endurance: 1,000 hours 85°C
 Temperature range -40°C to +85°C
 Uniform flame-retardant epoxy resin coating

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0124-3	MMC0400K10500000000	1uF	400V	BULK
222-0070-6	MMC0630K105	1uF	630V	BULK

● Metallized Polyester Film



MMH Series

Brand : NISSEI

High reliability
Available in series from low voltage to high voltage
Uniform flame-retardant epoxy resin coating
Endurance: 1,000 hours 85°C
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0002-4	MMH0400K105	1uF	400V	BULK



MML Series

Brand : NISSEI

Very small sized
Ideal for use as interference suppression capacitors
Endurance: 1,000 hours 105°C
Temperature range -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0027-7	MML0250K473	47nF	250V	BULK



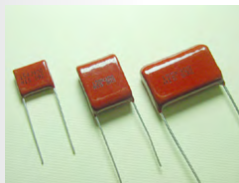
MMT Series

Brand : NISSEI

Stacked type, Micro-miniature sized
Standardized 5.0mm lead spacing
Endurance: 1,000 hour 85°C
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0107-4	MMTVA0050J10400000200	0.1uF	50V	TAPE AMMO PACK
222-0108-7	MMTA0050J47400000000	0.47uF	50V	BULK

● Metallized Polyester Film

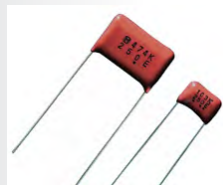


MMX Series

Brand : NISSEI

Very small size, achieved by our unique manufacturing method
 Highly reliable because of its self-healing performance
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours 85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0022-2	MMX0400J154	0.15uF	400V	BULK
222-0012-8	MMX0400J105	1uF	400V	BULK
222-0006-6	MMX0250K155	1.5uF	250V	BULK
222-0009-5	MMX0400K155	1.5uF	400V	BULK

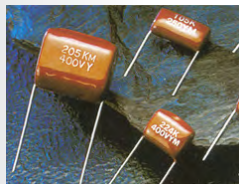


ECQE Series

Brand : PANASONIC

Non-inductive construction
 Excellent electrical characteristics
 Flame retardant epoxy resin coating
 Temperature range -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0114-4	ECQE2105KF	1uF	250V	BULK
102-0061-0	ECQ-E4225KF	2.2uF	400V	BULK



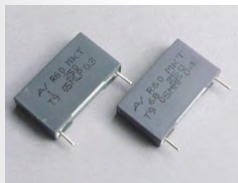
MEF Series

Brand : YUON YU

Series for general purpose

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
028-0005-7	MEF203K2G	20nF	400V	BULK
028-0006-0	MEF205K2E	2uF	250V	BULK

● Metallized Polyester Film

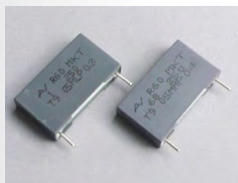


R60 (MKT) Series

Brand : ARCOTRONICS

D.C. Multipurpose applications
 Temperature range -55°C to +105°C
 Endurance: 2,000 hours +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
198-0131-7	R60IN3680AA30K	0.68 μ F	250V	BULK
198-0114-8	R60IN4100AA30K	1 μ F	250V	BOX
198-0104-4	R60IN4220AA30K	2.2 μ F	250V	BULK



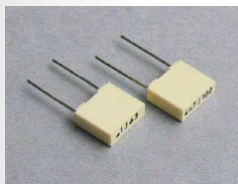
R66 (MKT) Series

Brand : ARCOTRONICS

D.C. Multipurpose applications, Pitch 7.5mm
 Temperature range -55°C to +105°C
 Endurance: 2,000 hours +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
198-0177-1	R66ID3100AA7AJ	0.1 μ F	250V	BOX

● Metallized Polyester Film



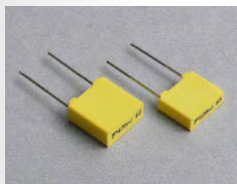
R82 (MKT) Series

Brand : ARCOTRONICS

High performance-DIN 44122
 Multipurpose applications, Pitch 5mm
 Temperature range -55°C to +105°C
 Endurance: 2,000 hours +100°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
198-0047-4	R82EC1100DQ50J	1nF	100V	TAPE AMMO PACK
198-0048-7	R82EC1150DQ50J	1.5nF	100V	TAPE AMMO PACK
198-0049-0	R82EC1220DQ50J	2.2nF	100V	TAPE AMMO PACK
198-0032-5	R82MC1220DQ50K	2.2nF	400V	TAPE AMMO PACK
198-0089-6	R82EC1270DQ50J	2.7nF	100V	BULK
198-0095-8	R82EC1330DQ50J	3.3nF	100V	TAPE AMMO PACK
198-0022-1	R82EC1680DQ50J	6.8nF	100V	TAPE AMMO PACK
198-0050-7	R82EC2100DQ50J	10nF	100V	TAPE AMMO PACK
198-0101-5	R82IC2100DQ50J	10nF	250V	TAPE AMMO PACK
198-0084-1	R82IC2150DQ50J	15nF	250V	TAPE AMMO PACK
198-0092-9	R82EC2180DQ50J	18nF	100V	TAPE AMMO PACK
198-0039-6	R82EC2330DQ50J	33nF	100V	TAPE AMMO PACK
198-0097-4	R82EC2560DQ60J	56nF	100V	TAPE AMMO PACK
198-0096-1	R82EC2680DQ60J	68nF	100V	TAPE AMMO PACK
198-0033-8	R82DC3100DQ50J	0.1uF	63V	TAPE AMMO PACK
198-0034-1	R82EC3150DQ70J	0.15uF	100V	TAPE AMMO PACK
198-0029-2	R82EC3220DQ70J	0.22uF	100V	TAPE AMMO PACK
198-0036-7	R82EC3330DQ70J	0.33uF	100V	TAPE AMMO PACK
198-0102-8	R82DC3470DQ60J	0.47uF	63V	TAPE AMMO PACK
198-0079-2	R82EC3470DQ70J	0.47uF	100V	TAPE AMMO PACK
198-0037-0	R82EC3680DQ70J	0.68uF	100V	TAPE AMMO PACK
198-0012-7	R82DC4100DQ60J	1uF	63V	TAPE AMMO PACK

● Metallized Polyester Film

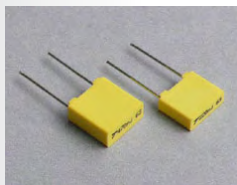


BF Series

Brand : AVX

For general purpose
Pitch 5.08mm

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
174-0005-8	BF014D0152JDC	1.5nF	63V	TAPE AMMO PACK

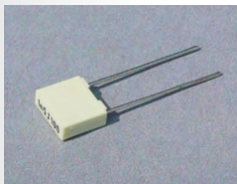


BQ Series

Brand : AVX

For general purpose
Pitch 5.08mm

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
174-0043-8	BQ014D0102JDC	1nF	63V	TAPE AMMO PACK
174-0046-7	BQ014D0222JDC	2.2nF	63V	TAPE AMMO PACK
174-0041-2	BQ014D0473JDC	47nF	63V	TAPE AMMO PACK
174-0045-4	BQ014D0683JDC	68nF	63V	TAPE AMMO PACK
174-0038-9	BQ014D0104JDC	0.1uF	63V	TAPE AMMO PACK



MMY Series

Brand : CNC

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
161-0010-8	C-MMY-822J100V	8.2nF	100V	BULK

● Metallized Polyester Film



B32520 (MKT) Series

Brand : EPCOS

For general purpose
High pulse strength, High contact reliability
Temperature range -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
221-0077-0	B32520C3104J189	0.1uF	250V	BOX



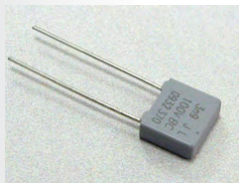
C24 (CL23B) Series

Brand : FARATRONIC

Stacked construction
High dv/dt ability
Temperature range -55°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0008-0	C242A102J20A201	1nF	100V	TAPE AMMO PACK
771-0009-3	C242A103J20A201	10nF	100V	TAPE AMMO PACK
771-0001-9	C242A473J20A201	47nF	100V	TAPE AMMO PACK
771-0013-9	C241J104J20A201	0.1uF	63V	TAPE AMMO PACK
771-0002-2	C242A104J2SA201	0.1uF	100V	TAPE AMMO PACK
771-0010-0	C232E104J3SC450	0.1uF	250V	BULK
771-0003-5	C242A184J2SA201	0.18uF	100V	TAPE AMMO PACK
771-0011-3	C242A224J2SA201	0.22uF	100V	TAPE AMMO PACK
771-0004-8	C242A334J2SA201	0.33uF	100V	TAPE AMMO PACK
771-0028-8	C242A474J2SA201	0.47uF	100V	TAPE AMMO PACK
771-0005-1	C241J105J2SA201	1uF	63V	TAPE AMMO PACK

● Metallized Polyester Film



MKT370 Series

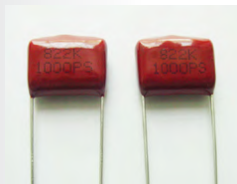
Brand : VISHAY

5.08 lead pitch

Endurance: 2,000 hours 85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
135-0359-0	BFC237086392	3.9nF	100V	TAPE AMMO PACK

● Metallized Polypropylene Film



PPS Series

Brand : AEC

Hi-voltage
Endurance: 1,000 hours 85°C
Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
158-0148-0	PPS682K3A-AEC	6.8nF	1000V	BULK
158-0135-7	PPS822K3A-AEC	8.2nF	1000V	BULK



C31 (CBB21) Series

Brand : FARATRONIC

Low loss at high frequency
Small inherent temperature rise
Temperature range -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0045-7	C312J104J6SC000	0.1uF	630V	BULK
771-0044-4	C312J224J9SF700	0.22uF	630V	BULK
771-0050-6	C312J474J9SC000	0.47uF	630V	BULK



MET (CBB21) Series

Brand : HANWAY

Temperature range -40°C to +85°C
Load life 1,000 hours +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
695-0004-3	MET-333-400JP10T	33nF	400V	TAPE AMMO PACK
695-0002-7	MET-683-400JP10	68nF	400V	BULK
695-0005-6	MET-683-400JP10T	68nF	400V	TAPE AMMO PACK

● Metallized Polypropylene Film



MPE Series

Brand : NISSEI

With a low dissipation factor, best suited to high frequency, large current circuit

Excellent frequency and temperature characteristics

Temperature range -40°C to +105°C

Endurance: 1,000 hours 105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0093-3	MPE1600J3320000000	3.3nF	1600V	BULK
222-0095-9	MPE1600J4720000000	4.7nF	1600V	BULK
222-0096-2	MPE1600J8220000000	8.2nF	1600V	BULK
222-0085-5	MPE0630J2230000000	22nF	630V	BULK
222-0089-7	MPE0630J4730000000	47nF	630V	BULK
222-0094-6	MPE0400J1040000000	0.1uF	400V	BULK
222-0083-9	MPE0630J1040000000	0.1uF	630V	BULK



MPX Series

Brand : AEC

Across- the- line and interference suppression-Class X2

Temperature range -40°C to +100°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
158-0170-8	MPX473K275VAC-AEC	47nF	275V	BULK
158-0128-2	MPX104K275VAC-AEC	0.1uF	275V	BULK

● Metallized Polypropylene Film



R.46 (MKP) Series

Brand : ARCOTRONICS

X2-Class, Interference suppression and across-the-line
Self-healing properties
Temperature range -40°C to +110°C
Endurance: 1,000 hours +110°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
198-0007-8	R46KI2100JB01M	10nF	275V	BOX
198-0158-6	R46KI310000M1K1	0.1uF	275V	BOX
198-0027-6	R46KI315045M2M	0.15uF	275V	BOX
198-0040-3	R46KI322045M2M	0.22uF	275V	BOX
198-0019-8	R46KI3220JPM2M	0.22uF	275V	BOX
198-0064-3	R46KN322055M1K	0.22uF	275V	BOX
198-0167-7	R46KI3330JPN0M	0.33uF	275V	BOX
198-0082-5	R46KI3470JPN0M	0.47uF	275V	BOX
198-0015-6	R46KN347055M1M	0.47uF	275V	BOX
198-0169-3	R46KN410045N1K	1uF	275V	BOX
198-0098-7	R46KR4100JPM1M	1uF	275V	BOX



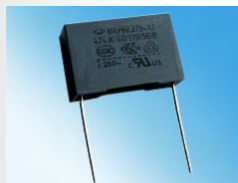
R76 (MMKP) Series

Brand : ARCOTRONICS

Double sided metallized film electrode D.C. and pulse
Temperature range -55°C to +105°C
Endurance: 2,000 hours +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
198-0059-4	R76QD1330SE00J	3.3nF	1000V	BOX
198-0153-1	R76QF1470SE30J	4.7nF	1000V	BOX
198-0045-8	R76TI1680SE30J	6.8nF	1600V	BOX
198-0175-5	R76PF2100JE30J	10nF	630V	-
198-0076-3	R76PF2100SE30J	10nF	630V	-
198-0068-5	R76PI2120SE00J	12nF	630V	BULK
198-0038-3	R76MF2150SE30J	15nF	400V	BOX
198-0055-2	R76PI2220SE30J	22nF	630V	BOX

● Metallized Polypropylene Film

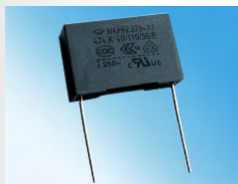


C42 (MKP62) Series

Brand : FARATRONIC

Class X2, Interference suppression
 Withstanding over voltage stressing
 Temperature range -40°C to +110°C
 Endurance: 1,000 hours +110°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0017-1	C42P2333M30C000	33nF	275V	BULK
771-0033-7	C42P2473K4SC000	47nF	275V	BULK
771-0006-4	C42P2104M6SC450	0.1uF	275V	BULK
771-0007-7	C42P2104M6SC000	0.1uF	275V	BULK
771-0038-2	C42P2224K9SC000	0.22uF	275V	BULK
771-0042-8	C42Q2224M6SC000	0.22uF	305V	BULK
771-0032-4	C42P2474K6SC000	0.47uF	275V	BULK
771-0043-1	C42Q2105MBSC000	1uF	305V	BULK
771-0052-2	C42Q2335MBSC000	3.3uF	305V	BULK



C43 (MKP63) Series

Brand : FARATRONIC

Class Y2, Interference suppression
 Withstanding over voltage stressing
 Excellent active and passive flame resistant abilities
 Temperature range -40°C to +110°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0039-5	C43Q1472M40C000	4.7nF	300V	BULK

● Metallized Polypropylene Film



C82 (MMKP82) Series

Brand : FARATRONIC

Doublesided metallized structure
 Low loss and small inherent temperature rise
 Negative temperature coefficient of capacitance
 Excellent active and passive flame resistant circuit
 Temperature range -40°C to +105°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
771-0040-2	C823A102J40A405	1nF	1000V	TAPE AMMO PACK
771-0041-5	C823C822J60C000	8.2nF	1600V	BULK
771-0014-2	C823C103J60C450	10nF	1600V	BULK

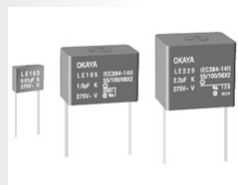


KNB Series

Brand : ISKRA

Class X2, Interference suppression
 Temperature range -40°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
590-0002-3	KNB1560 0.47UF +/-10%	0.47uF	275V	BOX
590-0003-6	KNB1560 2.2UF, +/-10%	2.2uF	275V	BOX



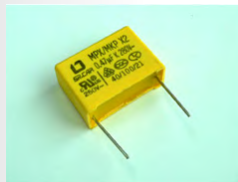
LE Series

Brand : OKAYA

Class X2, Noise suppression
 Temperature range -55°C to +100°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
463-0001-8	LE684-M	0.68uF	275V	BOX

● Metallized Polypropylene Film

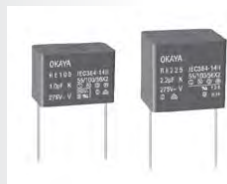


MPX Series

Brand : SR CAPACITORS

Class X2, Suppression capacitors
 Self-healing effect
 Have strong moisture resistance and well proof voltage
 Temperature range -40°C to +100°C
 Endurance: 1,000 hours +100°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
552-0005-4	MP2472K3C10	4.7nF	280V	BULK
552-0007-0	MP2103K3C2G0	10nF	280V	BULK
552-0001-2	MP2104K3D20	0.1uF	280V	BULK
552-0004-1	MP2474K3E40	0.47uF	280V	BULK
552-0002-5	MP2105K3F20	1uF	280V	BULK



RE Series

Brand : OKAYA

Class X2, Noise suppression
 Wide temperature range -40°C to +100°C
 Best performance series
 Cost effective

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
463-0004-7	RE104-C	0.1uF	275V	BULK

● Polyester Film



PEI Series

Brand : AEC

High moisture resistance
 Good solderability
 ESR is minimized
 Temperature range -40°C to +85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
158-0126-6	PEI102J2A-AEC	1nF	100V	BULK
158-0132-8	PEI152K2G-AEC	1.5nF	400V	BULK
158-0144-8	PEI332J2A-AEC	3.3nF	100V	BULK
158-0153-9	PEI472J2A-AEC	4.7nF	100V	BULK
158-0127-9	PEI103J2A-AEC	10nF	100V	BULK
158-0154-2	PEI223J2A-AEC	22nF	100V	BULK
158-0232-3	PEI333J2A-AEC	33nF	100V	BULK
158-0123-7	PEI104J2A-AEC	0.1uF	100V	BULK



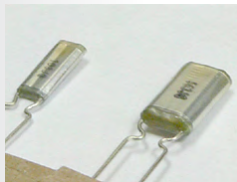
MYL Series

Brand : HANWAY

Good solderability
 Temperature range -55°C to +85°C
 Endurance: 1,000 hours 85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
695-0006-9	MYL-222-100JP5T	2.2nF	100V	TAPE AMMO PACK

● Polyester Film



AMA Series

Brand : NISSEI

For general purpose
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours 85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0038-4	AMAV0100J102	1nF	100V	TAPE AMMO PACK
222-0057-9	AMAV0100J122	1.2nF	100V	TAPE AMMO PACK
222-0056-6	AMAV0100J182	1.8nF	100V	TAPE AMMO PACK
222-0040-4	AMAV0100J222	2.2nF	100V	TAPE AMMO PACK
222-0041-7	AMAV0100J272	2.7nF	100V	TAPE AMMO PACK
222-0042-0	AMAV0100J332	3.3nF	100V	TAPE AMMO PACK
222-0043-3	AMAV0100J472	4.7nF	100V	TAPE AMMO PACK
222-0044-6	AMAV0100J562	5.6nF	100V	TAPE AMMO PACK
222-0045-9	AMAV0100J682	6.8nF	100V	TAPE AMMO PACK
222-0100-3	AMAV0100J333	33nF	100V	TAPE AMMO PACK
222-0069-9	AMAV0100J563	56nF	100V	TAPE AMMO PACK



AMZ Series

Brand : NISSEI

Very small size, especially in H dimension
 Good reputations
 Small allowance in the lead pitch dimension
 Temperature range -40°C to +85°C
 Endurance: 1,000 hours 85°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
222-0031-3	AMZV0050J153	15nF	50V	TAPE AMMO PACK
222-0113-6	AMZVB0050K47300000200	47nF	50V	TAPE AMMO PACK

● Polypropylene Film



B32922 (MKP) Series

Brand : EPCOS

X2 Class for interference suppression and across- the- line
 Very small dimension
 Self-healing properties
 Max. operating temperature +110°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
221-0073-8	B32922-A2104M	0.1uF	305V	BOX



FKP2 Series

Brand : WIMA

Film and foil capacitors for pulse applications
 Very low dissipation factor
 Negative capacitance change versus temperature
 Very low dielectric absorption
 Temperature range -55°C to +100°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
095-0104-4	FKP2 470/100/2.5 PCM5	470pF	100V	BOX

● RADIAL LEAD

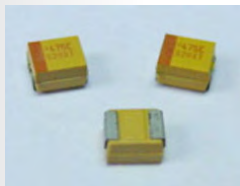
**TAP Series**

Low leakage current and impedance
 Very small physical size
 and exceptional temperature stability
 Temperature range -55°C to +125°C

Brand : AVX

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
092-0015-5	TAP104M050SCS	0.1uF	50V	BULK
092-0016-8	TAP105M035SCS	1uF	35V	BULK
092-0020-4	TAP475M025SCS	4.7uF	25V	BULK
092-0033-7	TAP685M025SCS	6.8uF	25V	BULK
092-0023-3	TAP106K016SCS	10uF	16V	BULK

● SURFACE MOUNT

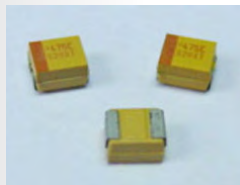


TAJ Series

Brand : AVX

Standard series
 Temperature range -55°C to +125°C
 High CVs capacitors

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
092-0230-8	TAJA225K016RNJ	2.2uF	16V	TAPE & REEL
092-0261-3	TAJA106K010RNJ	10uF	10V	TAPE & REEL
092-0278-8	TAJD106K035RNJ	10uF	35V	TAPE & REEL
092-0249-9	TAJA336K006RNJ	33uF	6.3V	TAPE & REEL
092-0280-8	TAJD227K010RNJ	220uF	10V	TAPE & REEL
092-0300-1	TAJE337K010RNJ	330uF	10V	TAPE & REEL



TCJ Series

Brand : AVX

Conductive polymer electrode reduces ignition failure mode
 Lower ESR
 Temperature range -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
092-0259-3	TCJB476M006R0070	47uF	6.3V	TAPE & REEL



TPS Series

Brand : AVX

Low ESR series
 Temperature range -55°C to +125°C
 Power supply applications

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
092-0258-0	TPSD157M010R0050	150uF	10V	TAPE & REEL

● SURFACE MOUNT



T491 Series

Brand : KEMET

Precision molded chip
 Low profile case sizes
 Extended range value
 Operating temperature -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
306-0148-4	T491A474K035AT	0.47uF	35V	TAPE & REEL
306-0074-9	T491A105K025AT	1uF	25V	TAPE & REEL
306-0078-1	T491B225K025AT	2.2uF	25V	TAPE & REEL
306-0075-2	T491B225K035AT	2.2uF	35V	TAPE & REEL
306-0160-8	T491A106K006AT-CT	10uF	6.3V	TAPE & REEL
306-0048-9	T491A106K006AT	10uF	6.3V	TAPE & REEL
306-0042-1	T491D106K050AT	10uF	50V	TAPE & REEL
306-0147-1	T491D336K016AT	33uF	16V	TAPE & REEL



F93 Series

Brand : NICHICON

Standard series, Resin-molded chip
 Endurance: 2,000 hours +85°C
 Temperature range -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
289-0094-3	F930J475KAA	4.7uF	6.3V	TAPE & REEL
289-0100-0	F930J106MAA	10uF	6.3V	TAPE & REEL
289-0241-4	F930J226MAA	22uF	6.3V	TAPE & REEL
289-0240-1	F931C226MBA	22uF	16V	TAPE & REEL
289-0070-3	F930J476KBA	47uF	6.3V	TAPE & REEL
289-0095-6	F930J476MBA	47uF	6.3V	TAPE & REEL
289-0086-5	F930J107MCC	100uF	6.3V	TAPE & REEL

● SURFACE MOUNT



TC Series

Brand : ROHM

Low impedance capacitors
 Screening by thermal shock
 Operating temperature -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
176-0141-1	TCA1C105M8R	1uF	16V	TAPE & REEL
176-0148-2	TCA1E105M8R	1uF	25V	TAPE & REEL
176-0143-7	TCA1C155M8R	1.5uF	16V	TAPE & REEL
176-0144-1	TCA1C225M8R	2.2uF	16V	TAPE & REEL
176-0145-3	TCA1C335M8R	3.3uF	16V	TAPE & REEL
176-0151-5	TCA1E335M8R	3.3uF	25V	TAPE & REEL
176-0146-6	TCA1C475M8R	4.7uF	16V	TAPE & REEL
176-0150-2	TCA1E475M8R	4.7uF	25V	TAPE & REEL
176-0147-9	TCA1C685M8R	6.8uF	16V	TAPE & REEL
176-0390-8	TCA1A106M8R	10uF	10V	TAPE & REEL
176-0142-4	TCA1C106M8R	10uF	16V	TAPE & REEL
176-0139-1	TCA1A156M8R	15uF	10V	TAPE & REEL
176-0140-8	TCA1A226M8R	22uF	10V	TAPE & REEL
176-0137-5	TCA0J336M8R	33uF	6.3V	TAPE & REEL
176-0138-8	TCA0J476M8R	47uF	6.3V	TAPE & REEL



TCFG Series

Brand : ROHM

Open structure built in for superior flame retardance characteristics
 Screening by thermal shock
 Operating temperature -55°C to +125°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
176-0389-1	B1A107M8R	100uF	10V	TAPE & REEL

● SURFACE MOUNT



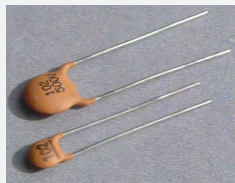
293D Series

Brand : VISHAY

Molded case, Standard industrial grade
 Operating temperature -55°C to +125°C
 Moisture sensitivity level 1

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
135-0230-0	293D105X9025A2TE3	1uF	25V	TAPE & REEL
135-0273-5	293D475X0016B2TE3	4.7uF	16V	TAPE & REEL
135-0272-2	293D106X0016C2TE3	10uF	16V	TAPE & REEL
135-0231-3	293D226X0016B2TE3	22uF	16V	TAPE & REEL

● Ceramic Disc Capacitors



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
158-0048-5	T050DCHE041L	5pF	50V	COG (NPO)	AEC
158-0039-4	T100JCHE041L	10pF	50V	COG (NPO)	AEC
158-0252-1	T100JCHE051L	10pF	50V	COG (NPO)	AEC
158-0138-6	T150JCHE051L	15pF	50V	COG (NPO)	AEC
158-0030-7	T200KCHE051L	20pF	50V	COG (NPO)	AEC
158-0241-4	T200JCHE051L	20pF	50V	COG (NPO)	AEC
158-0035-2	T220KCHE051L	22pF	50V	COG (NPO)	AEC
158-0121-1	T220KCHF051L	22pF	100V	COG (NPO)	AEC
158-0255-0	T220JSLM042LF	22pF	500V	SL	AEC
158-0020-3	T300KCHE051L	30pF	50V	COG (NPO)	AEC
158-0090-1	T300KSLE042B-T	30pF	50V	SL	AEC
999-2848-8	T300KSLE052B-T	30pF	50V	SL	N/A
158-0195-1	T330JCHE052A-T	33pF	50V	COG (NPO)	AEC
158-0021-6	T470KCHE052L	47pF	50V	COG (NPO)	AEC
158-0076-1	T470KCHF052L	47pF	100V	COG (NPO)	AEC
158-0063-8	T470JSLM052L	47pF	500V	SL	AEC
158-0137-3	T101KCHE062A-T	100pF	50V	COG (NPO)	AEC
158-0024-5	T101KCHE062L	100pF	50V	COG (NPO)	AEC
158-0066-7	T101KSLM052L	100pF	500V	SL	AEC
158-0029-0	T151KCHE082L	150pF	50V	COG (NPO)	AEC
158-0028-7	T221JSLE052L	220pF	50V	SL	AEC
158-0060-9	H221KYAF051L	220pF	100V	Y5E	AEC
158-0212-5	H331KYAE052A-T	330pF	50V	Y5E	AEC
158-0246-9	T331KCHF102AF-T	330pF	100V	COG (NPO)	AEC
158-0248-5	H331KYBS062A-T	330pF	2000V	Y5P	AEC
158-0112-0	H471KYAE051L	470pF	50V	Y5E	AEC
158-0207-6	H471KYBA052L	470pF	1000V	Y5P	AEC
158-0245-6	H561KYBF052BF-T	560pF	100V	Y5P	AEC

● Ceramic Disc Capacitors

>> Ceramic Disc Capacitors (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
158-0091-4	H102MYBE041L	1nF	50V	Y5P	AEC
158-0026-1	H102KYBE041L	1nF	50V	Y5P	AEC
158-0085-2	H102KYBE052B-T	1nF	50V	Y5P	AEC
158-0197-7	H102KYBE042B-T	1nF	50V	Y5P	AEC
158-0002-1	CC-1000PF500V	1nF	500V	-	AEC
158-0086-5	H102KYBP062B-T	1nF	1000V	Y5P	AEC
158-0088-1	H222KYBE052B-T	2.2nF	50V	Y5P	AEC
158-0216-7	H222MYES084L	2.2nF	2000V	Y5U	AEC
158-0073-2	H472KYBM102L	4.7nF	500V	Y5P	AEC
158-0221-6	H472ZZFA062L	4.7nF	1000V	Z5V	AEC
158-0142-2	H502KYBE072A-T	5nF	50V	Y5P	AEC
158-0237-8	H103ZYFE051BF	10nF	50V	Y5V	AEC
158-0087-8	H103ZZFE062B-T	10nF	50V	Z5V	AEC
158-0082-3	H103MZEE062B-T	10nF	50V	Z5U	AEC
158-0097-2	H103ZZFE062A-T	10nF	50V	Z5V	AEC
158-0257-6	H103ZZFE051BF-T	10nF	50V	Z5V	AEC
158-0013-8	H103ZZFE051L	10nF	50V	Z5V	AEC
158-0196-4	H103ZYFE052A-T	10nF	50V	Y5V	AEC
158-0071-6	H103MZEF062L	10nF	100V	Z5U	AEC
158-0260-9	H103MZES155QF	10nF	2000V	Z5U	AEC
158-0047-2	S223KYBE072L	22nF	50V	Y5P	AEC
158-0262-5	S223KYBE062L	22nF	50V	Y5P	AEC
158-0110-4	S223ZYFE042S	22nF	50V	Y5V	AEC
158-0027-4	S473ZYFE052B-T	47nF	50V	Y5V	AEC
158-0219-6	S503MYEE062L	50nF	50V	Y5U	AEC
158-0225-8	S503MYBE082L	50nF	50V	Y5P	AEC
158-0099-8	S104ZYFE072A-T	0.1uF	50V	Y5V	AEC
158-0017-0	S104ZYFE072B-T	0.1uF	50V	Y5V	AEC
158-0018-3	S104ZYFE072L	0.1uF	50V	Y5V	AEC
158-0109-7	S104ZYFE072S	0.1uF	50V	Y5V	AEC
158-0200-5	S104MYEE082L	0.1uF	50V	Y5U	AEC
158-0034-9	S224ZYFE102L	0.22uF	50V	Y5V	AEC
158-0235-2	S474ZYFB112L	0.47uF	16V	Y5V	AEC

● Ceramic Disc Capacitors

DEC Series

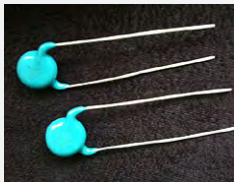
High voltage ceramic capacitors
Coated with flame-retardant epoxy resin
Temperature range -25°C to +85°C



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
160-0121-3	DECB33J221KC4B	220pF	6.3KV	-	MURATA
160-0122-6	DECB33J471KC4B	470pF	6.3KV	-	MURATA

DES Series

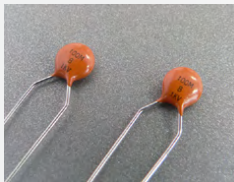
High voltage ceramic capacitors
Low-dissipation factor
The allowable power in the 100 to 300KHz band
Operating temperature range is guaranteed up to +125°C



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
160-0111-9	DESD32H681KA2B	680pF	500V	-	MURATA

561R Series

Temperature and voltage stabilized
Low losses, High stability
High capacitance in small size
Temperature range -55°C to +105°C

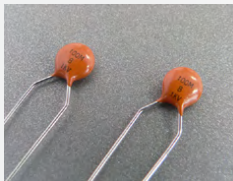


ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
135-0235-5	561R5GAQ33	33pF	1000V	U2J	VISHAY

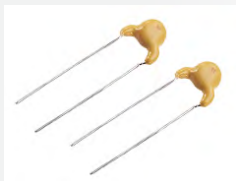
● Ceramic Disc Capacitors

562R Series

Temperature and voltage stabilized
 Low losses, High stability
 High capacitance in small size
 Temperature range -55°C to +105°C



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
135-0156-1	562C5GAT10	100pF	1000V	X5F	VISHAY
135-0320-1	562R10TST47	470pF	1000V	X5F	VISHAY
135-0236-8	562R10TSD10	1nF	1000V	X5F	VISHAY



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
102-0116-1	ECK-ATS222ME	2.2nF	250V	Y5U	PANASONIC

CS Series

Safety standard
 Class 2 High dielectric
 Temperature range -25°C to +105°C



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
169-0036-0	CS11-E2GA222MYNS	2.2nF	250V	Y5U	TDK

● Ceramic Disc Capacitors



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
158-0259-2	H102KYBS074L	1nF	2000V	Y5P	AEC



ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
158-0118-8	EE222M2T7L1K	2.2nF	250V	Y5U	AEC
158-0218-3	EF472M2T7L1K	4.7nF	250V	Y5V	AEC

● Ceramic Chip Capacitors



0402 (1005)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
033-0010-9	UVK105CH2R2JW-F	2.2pF	50V	C0H	TAIYO YUDEN
328-0080-1	0402N2R2B500LT	2.2pF	50V	C0G (NPO)	WALSIN
160-0158-6	GRM1555C1H100JA01D	10pF	50V	C0G (NPO)	MURATA
160-0101-5	GRM1555C1H100JZ01D	10pF	50V	C0G (NPO)	MURATA
328-0032-7	0402N820J500LT	82pF	50V	C0G (NPO)	WALSIN
169-0064-6	C1005X7R1H221KT	220pF	50V	X7R	TDK
328-0049-2	0402B102K500CT	1nF	50V	X7R	WALSIN
328-0075-2	0402B222K500CT	2.2nF	50V	X7R	WALSIN
169-0021-1	C1005X7R1H332K	3.3nF	50V	X7R	TDK
328-0047-6	0402B103K250CT	10nF	25V	X7R	WALSIN
328-0066-1	0402B223K160CT	22nF	16V	X7R	WALSIN
328-0046-3	0402B104K100CT	0.1uF	10V	X7R	WALSIN
328-0115-3	0402B104K160CT-CT	0.1uF	16V	X7R	WALSIN
328-0104-6	0402X225M6R3CT	2.2uF	6.3V	X5R	WALSIN

● Ceramic Chip Capacitors



0603 (1608)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
493-0004-1	201R14S0R2AV4T	0.2pF	200V	Dielectric	JOHANSON
493-0005-4	201R14S0R3BV4T	0.3pF	200V	Dielectric	JOHANSON
151-0405-1	CC0603CRNP09BN3R3	3.3pF	50V	COG (NPO)	YAGEO
493-0011-6	201R14S3R9BV4T	3.9pF	200V	Dielectric	JOHANSON
575-0003-5	U0603C5R6CNT	5.6pF	50V	COG (NPO)	PAN OVERSEAS
493-0012-9	201R14S5R6CV4T	5.6pF	200V	Dielectric	JOHANSON
082-0168-1	CL10C100JB8NNNC	10pF	50V	COG (NPO)	SAMSUNG
306-0172-8	C0603C120J5GACTU	12pF	50V	COG (NPO)	KEMET
160-0097-4	GRM1885C1H160FA01D	16pF	50V	COG (NPO)	MURATA
082-0162-3	CL10C200JB8NNNC-T	20pF	50V	COG (NPO)	SAMSUNG
082-0155-8	CL10C200JB8NNNC	20pF	50V	COG (NPO)	SAMSUNG
328-0103-3	0603N200F500LT	22pF	50V	COG (NPO)	WALSIN
328-0058-3	0603N220J500LT-CT	22pF	50V	COG (NPO)	WALSIN
328-0026-5	0603N220J500LT	22pF	50V	COG (NPO)	WALSIN
082-0154-5	CL10C300JB8NNNC	30pF	50V	COG (NPO)	SAMSUNG
328-0067-4	0603N300J500LT	30pF	50V	COG (NPO)	WALSIN
328-0055-4	0603N330J500LT	33pF	50V	COG (NPO)	WALSIN
306-0141-3	C0603C470J5GACTU	47pF	50V	COG (NPO)	KEMET
169-0019-1	C1608COG1H470J	47pF	50V	COG (NPO)	TDK
092-0076-2	06035A560JAT2A	56pF	50V	COG (NPO)	AVX
169-0015-9	C1608COG1H101J	100pF	50V	COG (NPO)	TDK
493-0013-2	251R14S101JV4T	100pF	250V	Dielectric	JOHANSON
306-0124-4	C0603C151J5GACTU	150pF	50V	COG (NPO)	KEMET
092-0169-2	06035A271JAT2A	270pF	50V	COG (NPO)	AVX
575-0002-2	U0603C471GCT	470pF	50V	COG (NPO)	PAN OVERSEAS
169-0032-8	C1608X7R1H471K	470pF	50V	X7R	TDK
092-0089-5	06035C102KAT2A	1nF	50V	X7R	AVX

● Ceramic Chip Capacitors

>> 0603 (1608) (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
092-0074-6	06031C102KAT2A	1nF	100V	X7R	AVX
092-0163-4	0603ZC222KAT2A	2.2nF	10V	X7R	AVX
092-0115-0	0603YC682KAT2A	6.8nF	16V	X7R	AVX
328-0106-2	0603B682K500CT-CT	6.8nF	50V	X7R	WALSIN
328-0025-2	0603B682K500CT	6.8nF	50V	X7R	WALSIN
092-0112-1	06035C103KAT2A	10nF	50V	X7R	AVX
328-0035-6	0603B333K500CT	33nF	50V	X7R	WALSIN
092-0200-6	0603ZC104KAT2A-CT	0.1uF	10V	X7R	AVX
092-0078-8	0603ZC104KAT2A	0.1uF	10V	X7R	AVX
092-0185-8	0603YC104JAT2A	0.1uF	16V	X7R	AVX
092-0222-0	0603YC104KAT2A-CT	0.1uF	16V	X7R	AVX
092-0041-5	0603YC104KAT2A	0.1uF	16V	X7R	AVX
092-0232-4	06035C104KAT2A-CT	0.1uF	50V	X7R	AVX
092-0090-2	06035C104KAT2A	0.1uF	50V	X7R	AVX
306-0046-3	C0603C104J5RACTU	0.1uF	50V	X7R	KEMET
328-0071-0	0603B105K100CT	1uF	10V	X7R	WALSIN
328-0082-7	0603B105K160CT	1uF	16V	X7R	WALSIN
160-0156-1	GRM188R61H105KAALD	1uF	50V	X5R	MURATA
306-0171-5	C0603C475K8PACTU	4.7uF	10V	X5R	KEMET

● Ceramic Chip Capacitors



0805 (2012)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
092-0135-8	08055A100JAT2A	10pF	50V	COG (NPO)	AVX
082-0130-5	CL21C120JBNC-CT	12pF	50V	COG (NPO)	SAMSUNG
306-0133-5	C0805C150J5GACTU	15pF	50V	COG (NPO)	KEMET
092-0244-4	08055A180JAT2A	18pF	50V	COG (NPO)	AVX
169-0028-2	C2012C0G1H300J-CT	30pF	50V	COG (NPO)	TDK
151-0404-8	CC0805JRNPO9BN101	100pF	50V	COG (NPO)	YAGEO
151-0409-3	CC0805KRX7R9BB101	100pF	50V	X7R	YAGEO
306-0072-3	C0805C101J5GACTU	100pF	50V	COG (NPO)	KEMET
092-0275-9	08055C151KAT2A	150pF	50V	X7R	AVX
328-0112-4	0805B471K251CT	470pF	250V	X7R	WALSIN
092-0002-2	08055C102KAT2A	1nF	50V	X7R	AVX
306-0084-3	C0805C102K5RACTU	1nF	50V	X7R	KEMET
092-0137-4	08055C222JAT2A	2.2nF	50V	X7R	AVX
328-0040-5	0805B222K500CT	2.2nF	50V	X7R	WALSIN
328-0105-9	0805B222K500CT-CT	2.2nF	50V	X7R	WALSIN
092-0303-1	08055C332KAT2A-CT	3.3nF	50V	X7R	AVX
092-0059-3	08055C472KAT2A	4.7nF	50V	X7R	AVX
306-0108-8	C0805C472K5RACTU-CT	4.7nF	50V	X7R	KEMET
092-0003-5	08055C103KAT2A	10nF	50V	X7R	AVX
092-0203-5	08055C103KAT2A-CT	10nF	50V	X7R	AVX
135-0232-6	VJ0805Y153KXCAT	15nF	200V	X7R	VISHAY
328-0028-1	0805B153K251CT	15nF	250V	X7R	WALSIN
328-0012-9	0805B223K201CT	22nF	200V	X7R	WALSIN
328-0018-7	0805B223K251CT	22nF	250V	X7R	WALSIN
328-0062-9	0805B333J101CT	33nF	100V	X7R	WALSIN
092-0109-8	08055C473KAT2A	47nF	50V	X7R	AVX
092-0283-7	08055C104JAT2A-CT	0.1uF	50V	X7R	AVX

● Ceramic Chip Capacitors

>> 0805 (2012) (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
092-0004-8	08055C104KAT2A	0.1uF	50V	X7R	AVX
092-0094-4	08055C104JAT2A	0.1uF	50V	X7R	AVX
092-0204-8	08055C104KAT2A-CT	0.1uF	50V	X7R	AVX
306-0099-2	C0805C104J5RACTU	0.1uF	50V	X7R	KEMET
328-0037-2	0805B224K250CT	0.22uF	25V	X7R	WALSIN
092-0095-7	08055C224KAT2A	0.22uF	50V	X7R	AVX
160-0074-7	GRM40X7R224K50-CT	0.22uF	50V	X7R	MURATA
328-0053-8	0805B474K250CT	0.47uF	25V	X7R	WALSIN
092-0272-0	08055C474KAT2A-CT	0.47uF	50V	X7R	AVX
328-0015-8	0805B824K250CT	0.82uF	25V	X7R	WALSIN
092-0309-8	0805YC105KAT2A	1uF	16V	X7R	AVX
328-0056-7	0805B105K250CT	1uF	25V	X7R	WALSIN
328-0068-7	0805B105K250CT-CT	1uF	25V	X7R	WALSIN
160-0084-1	GRM21BR71H105KA12L	1uF	50V	X7R	MURATA
328-0108-8	0805X106K6R3CT	10uF	6.3V	X5R	WALSIN
160-0089-6	GRM21BF51A106ZE15L	10uF	10V	Y5V	MURATA



1206 (3216)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
213-0010-1	1206N470J500NT-CT	47pF	50V	C0G (NPO)	HITANO
082-0138-9	CL31C470JBNC-CT	47pF	50V	C0G (NPO)	SAMSUNG
082-0020-6	CL31B471KBNC	470pF	50V	X7R	SAMSUNG
328-0113-7	1206B681K501LT-CT	680pF	500V	X7R	WALSIN
328-0031-4	1206N821J500NT-CT	820pF	50V	C0G (NPO)	WALSIN
082-0134-7	CL31B102KBNC-CT	1nF	50V	X7R	SAMSUNG

● Ceramic Chip Capacitors

>> 1206 (3216) (Continued)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
226-0003-5	1206B102K501CC-CT	1nF	500V	X7R	TEAM YOUNG
328-0073-6	1206B102K501LT-CT	1nF	500V	X7R	WALSIN
328-0045-0	1206B102K501LT	1nF	500V	X7R	WALSIN
328-0039-8	1206B222K501LT	2.2nF	500V	X7R	WALSIN
328-0114-0	1206B472K501CT	4.7nF	500V	X7R	WALSIN
092-0216-8	12065C103KAT2A	10nF	50V	X7R	AVX
092-0218-4	12067C103KAT2A	10nF	500V	X7R	AVX
473-0008-7	933X-016/273JTR1206	27nF	16V	-	TECATE
328-0014-5	1206B683K201CT	68nF	200V	X7R	WALSIN
160-0182-1	GRM31BR72E683KW01L	68nF	250V	X7R	MURATA
328-0019-0	1206B683K251CT	68nF	250V	X7R	WALSIN
328-0101-7	1206B683K251CT-CT	68nF	250V	X7R	WALSIN
092-0264-2	12065C104KAT2A -CT	0.1uF	50V	X7R	AVX
092-0133-2	12065C104KAT2A	0.1uF	50V	X7R	AVX
092-0081-1	12061C104KAT2A	0.1uF	100V	X7R	AVX
328-0013-2	1206B104K201CT	0.1uF	200V	X7R	WALSIN
328-0016-1	1206B104K251CT	0.1uF	250V	X7R	WALSIN
306-0025-2	C1206C224K1RAC	0.22uF	100V	X7R	KEMET
328-0021-0	1206B224K101CT	0.22uF	100V	X7R	WALSIN
092-0098-6	12065C474MAT2A	0.47uF	50V	X7R	AVX
092-0211-3	12065C474MAT2A-CT	0.47uF	50V	X7R	AVX
169-0033-1	C3216X7R1E105K	1uF	25V	X7R	TDK
328-0038-5	1206B105K500CT	1uF	50V	X7R	WALSIN
160-0099-0	GRM31CR71H225KA88L	2.2uF	50V	X7R	MURATA
082-0163-6	CL31A226KPHNNNE	22uF	10V	X5R	SAMSUNG
160-0102-8	GRM31CF50J107ZE01L	100uF	6.3V	Y5V	MURATA

● Ceramic Chip Capacitors



1210 (3225)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
306-0073-6	C1210C105K5RACTU	1uF	50V	X7R	KEMET
328-0072-3	1210X106K160CT	10uF	16V	X5R	WALSIN
328-0060-3	1210X226M100CT	22uF	10V	X5R	WALSIN
328-0099-2	1210X226K100CT	22uF	10V	X5R	WALSIN

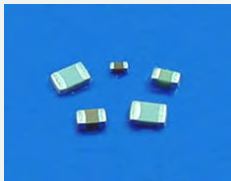


1808 (4520)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
160-0075-0	GRM42-6C0G200J50-CT	20pF	4V	C0H	MURATA
473-0006-1	CMC-2K0/221JN1808T	220pF	2000V	C0G (NPO)	TECATE
160-0078-9	GRM42X7R102K500-CT	1nF	500V	X7R	MURATA
160-0076-3	GRM426X7R105K16-CT	1uF	16V	X7R	MURATA

○ Ceramic & Chip Capacitors

● Ceramic Chip Capacitors



1812 (4532)

ES-P/N	MFR-P/N	Capacitance	Voltage	Temperature Characteristic	Vender
151-0406-4	CC1812KKX7RCBB102	1nF	1000V	X7R	YAGEO



DCK Series

Brand : ELNA

High voltage
Coin cell type for memory backup
High reliability
1.8mm height type
Temperature range -10°C to +60°C
Endurance: 1,000 hours 60°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
093-0124-8	DCK-3R3E224U-E	0.22F	3.3V	BULK

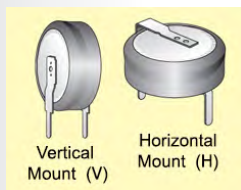


NF Series

Brand : PANASONIC

Stack coin type for memory back-up
Endurance: 1,000 hours 70°C
Temperature range -25°C to +70°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Packaging
102-0041-2	EECF5R5U105	1F	5.5V	TRAY

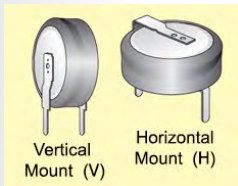


SD Series

Brand : PANASONIC

Stack coin type for memory back-up
Endurance: 1,000 hours 70°C
Temperature range -25°C to +70°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Mounting	Packaging
102-0035-0	EECS0HD104V	0.1F	5.5V	V	BULK
102-0031-8	EECS0HD334H	0.33F	5.5V	H	BULK
102-0036-3	EECS0HD334V	0.33F	5.5V	V	BULK



SG Series

Brand : PANASONIC

Stack coin type for memory back-up
 Endurance: 1,000 hours 70°C
 Maximum height of 6mm (H Terminal)
 Temperature range -25°C to +70°C

ES-P/N	MFR-P/N	Capacitance	Voltage	Mounting	Packaging
102-0040-9	EECS5R5V474	0.47F	5.5V	V	TRAY
102-0038-9	EECS5R5H474	0.47F	5.5V	H	TRAY
102-0037-6	EECS5R5H105	1F	5.5V	H	TRAY
102-0039-2	EECS5R5V105	1F	5.5V	V	TRAY