Filename: PMP9491_BOM.xls

Variant: None

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PMP9491

IPCB1	Designator	Description	Manufacturer	PartNumber	Quantity
C1 CAP, AL, 470UF, 10V, 4-20%, 0.012 ohm, SMD Nippon Chemit-Con APAX100ARA471MLC0G 1 C2, C3 CAP, CERM, 0.18 μF, 50 V, 4-10%, X7R, 0805 MuRata GRM188R60.0198KA01D 2 C4 CAP, CERM, 0.18 μF, 50 V, 4-10%, X7R, 0805 Kemet C.0805C146KARCCTU 1 CB, C3, C6, C6, C6, C6, C6, C6, C6, C6, C6, C6					1
C4 CAP, CERM, 0.19 μF, 50 V, +/- 10%, X7R, 0805 Kemet C09505144SRARCTU 1 3 C8, C9, CAP, AL, 56 μF, 20 V, +/- 20%, 0.30 shm, SMD Sanyo 20SVPF56MX 3 3 C8, C9, CAP, CERM, 1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C105KAT2A 7 C33, C50, C66, C66, C68 C10 CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0803 AVX 08031C103KAT2A 1 C11 CAP, CERM, 0.47 μF, 16 V, +/- 10%, X7R, 0803 AVX 0805YC474KAT2A 1 C12 CAP, CERM, 2200μF, 16V, +/- 10%, X7R, 0803 AVX 0805YC474KAT2A 1 C13, C14, CAP, CERM, 2200μF, 16V, +/- 10%, X7R, 0803 AVX 0805YC474KAT2A 1 C13, C14, CAP, CLRM, 200μF, 16V, +/- 10%, X7R, 0803 AVX 0805YC474KAT2A 1 C15, C37 CAP, CERM, 0.01 μF, 50 V, +/- 10%, X7R, 0805 AVX 0805YC474KAT2A 2 C15, C37 CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805 AVX 0805SC104KAT2A 2 C17, C21, CAP, CERM, 0.00 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608AT2H224K080AB 4 C15, C37 CAP, CERM, 0.2 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608AT2H224K080AB 4 C20, C22, CAP, CERM, 330 μF, 50 V, +/- 10%, X7R, 0803 MuRata GRM188C1H331JA01D 4 C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H684KA8BL 4 C30, C32 C26, C31 C36, C31 C37, C4P, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H684KA8BL 4 C30, C32 C30, C32 C30, C32 C30, C32 C30, C32 C40, C42, C4P, CERM, 0.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H684KA8BL 4 C30, C32	C1	CAP, AL, 470uF, 10V, +/-20%, 0.012 ohm, SMD	Nippon Chemi-Con	APXA100ARA471MJC0G	1
C5. C6. C7 CAP, ALL 86 μF; 20 V, 4- 20%, 0.03 ohm, SMD Sarryo 20SVPF56MX 3 C8. C9. C8. C9. CAP, CERM, 1 μF, 50 V, 4- 10%, X7R, 0805 AVX 08055C105KAT2A 7 C9. C86, C86, C86, C86, C86, C86, C86, C86,	C2, C3	CAP, CERM, 1uF, 6.3V, +10/%, X5R, 0603	MuRata	GRM188R60J105KA01D	2
C8, G., C23, C59, C6RM, 1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C105KAT2A 7 C23, C50, C60, C66, C68 C10 CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0803 AVX 0803YC474KAT2A 1 C11 CAP, CERM, 0.47 μF, 16 V, +/- 10%, X7R, 0803 AVX 0803YC474KAT2A 1 C12 CAP, CERM, 2009F, 16V, +107%, X7R, 0803 MWRata GRM1887T1C22XKA01D 1 C13, C14, CAP, CAL, 47 μF, 35 V, +/- 20%, 0.36 ohm, SMD Panasonic EEE-FK1V470P 4 C15, C37 CAP, CERM, 0.0 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0803 AVX 08055C104KAT2A 2 C17, C21, C4P, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608X/R1H224K080AB 4 C19, C27, C4P, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM1885C1H331JA01D 4 C29, C24, CAP, CERM, 0.03 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H684KA8BL 4 C30, C32 CAP, CERM, 47 μF, 50 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 CAP, CERM, 47 μF, 50 V, +/- 5%, COG/N	C4	CAP, CERM, 0.18 µF, 50 V, +/- 10%, X7R, 0805	Kemet	C0805C184K5RACTU	1
C23, C50, C80, C86, C86, C80, C86, C86, C86, C86, C86, C86, C86, C86	C5, C6, C7	CAP, AL, 56 μF, 20 V, +/- 20%, 0.03 ohm, SMD	Sanyo	20SVPF56MX	3
C60, C66, C68 C10 CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0603 AVX 06031C103KAT2A 1 C11 CAP, CERM, 0.47 μF, 16 V, +/- 10%, X7R, 0603 AVX 0805YC474KAT2A 1 C12 CAP, CERM, 2200pF, 16V, +10%, X7R, 0603 MuRata GRM188R71C222KA01D 1 C13, C14, CAP, AL, 47 μF, 35 V, +2 20%, 0.36 ohm, SMD Panasonic EEF-K1V470P 4 C13, C37 CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C17, C21, CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608X7R1H224K080AB 4 C19, C25, C29 C18, C22, CAP, CERM, 330 pF, 50 V, +/- 5%, COG/NPO, 0603 MuRata GRM1885C1H331JA01D 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C30, C32 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 CAP, CERM, 4.7 μF, 50 V, +/- 5%, COG/NPO, 0603 AVX 06035C104JAT2A 2 <td< td=""><td>C8, C9,</td><td>CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805</td><td>AVX</td><td>08055C105KAT2A</td><td>7</td></td<>	C8, C9,	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	AVX	08055C105KAT2A	7
C68	C23, C50,				
C10 CAP, CERM. 0.01 μF, 100 V, +/- 10%, X7R, 0803 AVX 08031C103KAT2A 1	C60, C66,				
C11	C68				
C12 CAP, CERM, 2200pF, 16V, +10%, X7R, 0603 MuRata GRM188R71C222KA01D 1 C13, C14, C14, CAP, AL, 47 μF, 35 V, +20%, 0.36 ohm, SMD Panasonic EEE-FKIV470P 4 C13, C14, CAP, AL, 47 μF, 35 V, +20%, 0.36 ohm, SMD Panasonic EEE-FKIV470P 4 C13, C14, CAP, CERM, 0.1 μF, 50 V, +20%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +4-10%, X7R, 0803 TDK C1608X7R1H224K080AB 4 C25, C29 C18, C22, C2P, CERM, 0.02 μF, 50 V, +4-5%, C0G/NP0, 0603 TDK C1608X7R1H224K080AB 4 C25, C29 C18, C22, C2AP, CERM, 0.01 μF, 100 V, +4-10%, X7R, 0805 MuRata GRM1885C1H331JA01D 4 C28, C31, C32, C31 C49, CERM, 0.01 μF, 100 V, +4-10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C30, C32, C32, C32, C32, C32, C32, C32, C34, C42, C42, C42, C42, C42, C42, C42, C4	C10	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, 0603	AVX	06031C103KAT2A	1
C13, C14, CAP, AL, 47 μF, 35 V, +/- 20%, 0.36 ohm, SMD Panasonic EEE-FKIV470P 4 C33, C34 C15, C37 CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805 AVX 08055C102KAT2A 2 C17, C21, C25, C29 TDK C1608X7R1H224K080AB 4 C18, C22, CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603 MURata GRM1885C1H331JA01D 4 C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C33, C32 C28, C31 CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H884KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Talyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C46, C47, CERM, 4.7 μF, 10 V, +/- 5%, CVG/NPO, 0603 AVX 0603740JA172A 1 C40, C44 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0603 AVX 0603740JA172A 1 C42, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 AVX 0603740JA172A 1 C42, CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0805	C11	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0805	AVX	0805YC474KAT2A	1
C33, C34 C15, C37 CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0803 TDK C1608X7R1H224K080AB 4 C25, C29 C17, C21, CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608X7R1H224K080AB 4 C25, C29 C18, C22, CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0803 MuRata GRM1885C1H331JA01D 4 C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C30, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA8BL 4 C30, C24, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA8BL 4 C30, C24, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 CAP, CERM, 4.7 μF, 50 V, +/- 5%, C0G/NP0, 0803 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 50 V, +/- 5%, X7R, 0805 AVX 0603YC104JAT2A 2 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MVR 08031C472KA73A 1 <	C12	CAP, CERM, 2200pF, 16V, +10/%, X7R, 0603	MuRata	GRM188R71C222KA01D	1
C15, C37 CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805 AVX 08055C104KAT2A 2 C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805 AVX 08055C102KAT2A 2 C17, C21, CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805 TDK C1608X7R1H224K080AB 4 C25, C29 C17, C21, CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603 MuRata GRM1885C1H331JA01D 4 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, C3, C4P, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 0805 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Talyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 06035A470JAT2A 1 C42 CAP, CERM, 47 μF, 10V, +/- 10%, X7R, 0805 AVX 06035YC104JAT2A 2 C42 CAP, CERM, 0.1 μF, 16 V, +/- 10%, X7R, 0805 AVX 06035YC104JAT2A 1 <	C13, C14,	CAP, AL, 47 µF, 35 V, +/- 20%, 0.36 ohm, SMD	Panasonic	EEE-FK1V470P	4
C16, C36 CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805 AVX D8055C102KAT2A 2 C17, C21, CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0803 TDK C1608X7R1H224K080AB 4 C25, C29 C18, C22, C2P, CAP, CERM, 330 pF, 50 V, +/- 5%, COG/NP0, 0603 MuRata GRM1885C1H331JA01D 4 C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C33, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA8BL 4 C30, C32, C32, C32, C32, C32, C32, C32, C32	C33, C34				
C17, C21, CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0603 TDK C1608X7R1H224K080AB 4 C25, C29 C26, C29 C28, C29, CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603 MuRata GRM1885C1H331JA01D 4 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C33, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C44, C48 C35 CAP, CERM, 4.7 μF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21B71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 0803YC104JAT2A 2 C51, C54, C52, C62 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 AVX 0803YC104JAT2A 2 C51, C54, C62 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 AVX 0803YC104JAT2A 2 C51, C54, C62 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0603 AVX 0803YC104JAT2A 2 C51, C54, C62 CAP, CERM, 4.7 μF, 10 V, X7R, 0603 AVX 0803YC104JAT2A 2 C53, C62 CAP, CERM, 4.7 μF, 50 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C58, C65 C62 CAP, CERM, 4.7 μF, 50 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C55, C56, C61, C64, C65, C67 C67 CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63, C64, C65, C67 C67 CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 D10de, Schottky, 35V, 8A, DPAK ON Semiconductor SMB5920B73G 1 D2 D10de, Zener, 6.2V, 550 mW, SMB ON Semiconductor SMB5920B73G 1 D4 D10de, Schottky, 35V, 8A, DPAK ON Semiconductor SMB5920B73G 1 D4 D10de, Schottky, 35V, 8A, DPAK ON Semiconductor SMB5920B73G 1 D4 D10de, Schottky, 35V, 8A, DPAK ON Semicond	C15, C37	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0805	AVX	08055C104KAT2A	2
C25, C29 C18, C22, CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603 MuRata GRM1885C1H331JA01D 4 C26, C31 C3P, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, sMD Panasonic EEF-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C54 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54 C54 CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0805 AVX	C16, C36	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805	AVX	08055C102KAT2A	2
C18, C22, CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603 MuRata GRM1885C1H331JA01D 4 C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 06037C104JA72A 2 C42 CAP, CAP, AL, 10 μF, 35 V, +/- 20%, 18 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 0.04 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C51, C54, C55, C54, C54, C6P, CERM, 10 μF, 25 V, +/- 10%, X7R, 0603 AVX 06031C472KA72A 1 C53, C55, C56, C67 C67 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K <td>C17, C21,</td> <td>CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0603</td> <td>TDK</td> <td>C1608X7R1H224K080AB</td> <td>4</td>	C17, C21,	CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0603	TDK	C1608X7R1H224K080AB	4
C26, C31 C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, X7R, 0805 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0803 AVX 0603YC104JAT2A 2 C42 C2AP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1400R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, CAP, CERM, 0.0 μF, 150 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, CERM, 0.1 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, CERM, 0.0 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0805 AVX 06031C472KA72A 1 C52, CAP, CERM, 4700 μF, 100 V, 47- 10%, X7R, 0805	C25, C29				
C19, C27, CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR72A103KA01L 4 C38, C39 C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C20, C24, C30, C32 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 4.7 μF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C49, C58 CAP, CERM, 0.047 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KA72A 2 C51, C54, C56, C62 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C52, C62 CAP, CERM, 1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C61 C66, C61, C64, C65, C64, C65, C64, C65, C64, C64, C65, C64, C64, C65	C18, C22,	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H331JA01D	4
C38, C39 C20, C24, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 18 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 47 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C322SX7R1E106M 4 C59, C62 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C66, C61, C65, C67 C67 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R12D6M 7 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1	C26, C31				
C20, C24, CAP, CERM, 0.68 μF, 50 V, +/- 10%, X7R, 1206 MuRata GRM31MR71H684KA88L 4 C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C33, C45, C46, C48 C35 CAP, CERM, 47 μF, 50 V, +/- 5%, COG/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C59, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C51, C54, CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KA72A 1 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP,	C19, C27,	CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0805	MuRata	GRM21BR72A103KA01L	4
C30, C32 C28, C41, CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 Taiyo Yuden LMK212B7475KG-T 6 C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KA72A 2 C51, C54, CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C66, C61, C64, C65, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semi	C38, C39				
C28, C41, CA2, CA2, CA2, CA2, CA2, CA2, CA2, CA3, CA3, CA5, CA3, CA5, CA3, CA5, CA3, CA5, CA4, CA3, CA5, CA4, CA3, CA5, CA4, CA4, CA2, CA2, CA2, CA2, CA2, CA2, CA2, CA2	C20, C24,	CAP, CERM, 0.68 µF, 50 V, +/- 10%, X7R, 1206	MuRata	GRM31MR71H684KA88L	4
C43, C45, C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, C69, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C56, C61, C64, C66, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor ISMB5920BT3G	C30, C32				
C46, C48 C35 CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NPO, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, C64, C69, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C61, C64, C65, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C63 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 15MB5920BT3G 1	C28, C41,	CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805	Taiyo Yuden	LMK212B7475KG-T	6
C35 CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 AVX 06035A470JAT2A 1 C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, C54, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C61, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor 1SMB9920BT3G 1 D3 LE	C43, C45,				
C40, C44 CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603 AVX 0603YC104JAT2A 2 C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, C59, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C66, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 55m W, SMB ON Semiconductor MBR59250BT3G 1 D4 D	C46, C48				
C42 CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD Panasonic EEE-FC1V100R 1 C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KA72A 2 C51, C54, C54, C54, C64, C65, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KA72A 1 C53, C55, C66, C61, C64, C65, C66, C61, C64, C65, C66 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1 SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID3, FID6 H	C35	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	AVX	06035A470JAT2A	1
C47 CAP, CERM, 4.7 μF, 10 V, +/- 10%, X7R, 0805 MuRata GRM21BR71A475KA73L 1 C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, C59, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C66, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schotiky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schotiky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID6 HB Aux N/A	C40, C44	CAP, CERM, 0.1 μF, 16 V, +/- 5%, X7R, 0603	AVX	0603YC104JAT2A	2
C49, C58 CAP, CERM, 0.047 μF, 100 V, +/- 10%, X7R, 0805 AVX 08051C473KAT2A 2 C51, C54, C54, CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C59, C62 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C55, CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C56, C61, C64, C65, C67 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C57 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. FID5, FID6 N/A N/A N/A H3 Panhead BAF Fastener Supply NY PMS 440 0025 PH 4	C42	CAP, AL, 10 μF, 35 V, +/- 20%, 1.8 ohm, SMD	Panasonic	EEE-FC1V100R	1
C51, C54, C59, C62 CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210 TDK C3225X7R1E106M 4 C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C56, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schotitky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schotitky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. FID15, FID6 N/A N/A N/A H8 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H8 J1, J3, J5 Binding Post, RED, TH	C47	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 0805	MuRata	GRM21BR71A475KA73L	1
C59, C62 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C56, C61, C66, C67, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. N/A N/A 6 FID3, FID6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply panhead NY PMS 440 0025 PH 4 H5, H6, H7, Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
C52 CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603 AVX 06031C472KAT2A 1 C53, C55, C56, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 15MB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID6 Fiducial mark. There is nothing to buy or mount. FID5, FID6 N/A N/A N/A H1, H2, H3, H3, H4, H4, H4, H4, H4, H4, H4, H4, H4, H4		CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210	TDK	C3225X7R1E106M	4
C53, C55, C56, C61, C64, C65, C67 CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603 AVX 06033C104JAT2A 7 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 15MB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. FID5, FID6 N/A N/A N/A H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips H4, panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
C56, C61, C64, C65, C67 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C57 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FiD6 Fiducial mark. There is nothing to buy or mount. N/A N/A 6 FID3, FID6, FID6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3			AVX		1
C64, C65, C67 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID4, FID5, FID6 Fiducial mark. There is nothing to buy or mount. N/A N/A 6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips H4 B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, Banhead H5, H6, H7, Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3	C53, C55,	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	AVX	06033C104JAT2A	7
C67 C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fidocial mark. There is nothing to buy or mount. N/A N/A 6 FID3, FID4, FID6 FID4 N/A N/A 6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply panhead NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3	C56, C61,				
C57 CAP, CERM, 2.2 μF, 35 V, +/- 10%, X7R, 0805 TDK C2012X7R1V225K085AC 1 C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. N/A N/A 6 FID3, FID6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
C63 CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0805 TDK C2012X7R1E105K 1 D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID4, FID5, FID6 Fiducial mark. There is nothing to buy or mount. N/A N/A 6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
D1 Diode, Schottky, 35V, 8A, DPAK ON Semiconductor MBRD835LT4G 1 D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. N/A N/A 6 FID3, FID4, FID6 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips B&F Fastener Supply NY PMS 440 0025 PH 4 H1, H2, H3, H4, H2, H3, H4, H2, H3, H4, H4, H4, H4, H4, H4, H4, H4, H4, H4					1
D2 Diode, Zener, 6.2V, 550 mW, SMB ON Semiconductor 1SMB5920BT3G 1 D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID4, FID5, FID6 FID6 FID5, FID6 FID6 FID7, FID6 FID7, FID7, FID7, FID7, FID7, FID7, FID7, FID8, FID8					1
D3 LED, Green, SMD Lite-On LTST-C190GKT 1 D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, FID4, FID5, FID6 Fiducial mark. There is nothing to buy or mount. N/A N/A 6 H1, H2, H3, H3, H4 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
D4 Diode, Schottky, 30V, 0.2A, SOT-23 Diodes Inc. BAT54C-7-F 1 FID1, FID2, Fiducial mark. There is nothing to buy or mount. FID3, FID4, FID5, FID6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips Panhead H5, H6, H7, Standoff, Hex, 0.5"L #4-40 Nylon H8 J1, J3, J5 Binding Post, RED, TH Diodes Inc. BAT54C-7-F 1 N/A N/A N/A N/A N/A N/A N/A N/A Stantant Standoff, N/A					
FID1, FID2, Fiducial mark. There is nothing to buy or mount. FID3, FID4, FID5, FID6 H1, H2, H3, Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead H5, H6, H7, H8 J1, J3, J5 Binding Post, RED, TH N/A N/A N/A N/A B&F Fastener Supply NY PMS 440 0025 PH 4 4 Line Screw, Round, #4-40 Nylon Keystone N/A N/A 1902C 4 Keystone 7006					1
FID3, FID4, FID5, FID6 FID5, FID6 B&F Fastener Supply NY PMS 440 0025 PH 4 H1, H2, H3, H4 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
FID5, FID6 B&F Fastener Supply NY PMS 440 0025 PH 4 H1, H2, H3, H4 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3		Fiducial mark. There is nothing to buy or mount.	N/A	N/A	6
H1, H2, H3, H4 Machine Screw, Round, #4-40 x 1/4, Nylon, Philips Panhead B&F Fastener Supply NY PMS 440 0025 PH 4 H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon H8 Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3					
H4 panhead Keystone H5, H6, H7, H8 Standoff, Hex, 0.5"L #4-40 Nylon Keystone J1, J3, J5 Binding Post, RED, TH Keystone 7006					
H5, H6, H7, Bandoff, Hex, 0.5"L #4-40 Nylon Keystone 1902C 4 J1, J3, J5 Binding Post, RED, TH Keystone 7006 3		· · · · · · · · · · · · · · · · · · ·	B&F Fastener Supply	NY PMS 440 0025 PH	4
H8 Langle of the state of the					
J1, J3, J5 Binding Post, RED, TH Keystone 7006 3	H5, H6, H7,	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
J2 Binding Post, BLACK, TH Keystone 7007 1	J1, J3, J5				3
	J2	Binding Post, BLACK, TH	Keystone	7007	1

Designator	Description	Manufacturer	PartNumber	Quantity
J4, J10, J11	Header, 100mil, 3x1, Gold, TH	Sullins Connector	PBC03SAAN	3
, ,	, , , ,	Solutions		
J6, J8	Header, 100mil, 2x1, Gold, TH	Sullins Connector	PBC02SAAN	2
ĺ	, , , ,	Solutions		
J7	RCA Jack, R/A, Black, TH	Switchcraft	PJRAN1X1U01X	1
J9	RCA Jack, R/A, Red, TH	Switchcraft	PJRAN1X1U03X	1
J12	Connector, DC Jack 2.1X5.5 mm, TH	CUI Inc.	PJ-202AH	1
J13	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	1
J14	Header, 100mil, 3x1, Tin, TH	Sullins Connector	PEC03SAAN	1
		Solutions		
J15, J16	Header, 100mil, 2x1, Tin, TH	Sullins Connector	PEC02SAAN	2
		Solutions		_
L1	Inductor, Shielded, Composite, 3.3uH, 25A, 0.0037	Coilcraft	XAL1010-332MEB	1
	ohm, SMD		7	•
	Inductor, Shielded, Ferrite, 10uH, 7.8A, 0.011 ohm,	Toko	931BS-100M	4
	SMD	TORO	301B6 100W	
L6	Inductor, Shielded Drum Core, Powdered Iron, 3.3uH,	Vishay-Dale	IHLP2020CZER3R3M11	1 1
	5.5A, 0.0404 ohm, SMD	Visitay Baic	THE ZOZOGZEROKOWITI	•
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H	Brady	THT-14-423-10	1
LDL	- 10,000 per roll	Diady	1111 14 423 10	'
Q1	MOSFET, N-CH, 25V, 100A, SON 5x6mm	Texas Instruments	CSD16321Q5	1
	MOSFET, N-CH, 30V, 5A, SON 2x2mm	Texas Instruments	CSD17313Q2	2
	MOSFET, P-CH, -20 V, -20 A, SON 2x2mm	Texas Instruments	CSD25310Q2	1
	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
R1	RES, 45.3 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060345K3FKEA	1
	RES, 41.2 k, 1%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW060343K3FKEA	1
R3	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale Vishay-Dale	CRCW04020000Z0ED	1
R4	RES, 100 ohm, 5%, 0.1W, 0603	Vishay-Dale Vishay-Dale	CRCW0603100RJNEA	1
R5	RES, 64.9 k, 1%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW060364K9FKEA	1
-	RES, 1.30 k, 1%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW060304R9FREA	1
R7, R8,	RES, 0 ohm, 5%, 0.125W, 0805	Vishay-Dale Vishay-Dale	CRCW08050000Z0EA	8
R10, R11,	1123, 0 01111, 376, 0.12377, 0003	Visitay-Date	CKCW08030000Z0EA	0
R37, R40,				
R43, R44				
	RES, 0.004 ohm, 1%, 1W, 2512	Panasonic	ERJ-M1WSF4M0U	1
	RES, 1.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00FKEA	1 1
	RES, 8.45 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06038K45FKEA	1 1
	RES, 100 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603100KFKEA	5
R39, R54,	100 K, 170, 0.1 W, 0003	Visitay Bale	OKOW 0003 TOOK! KEA	3
R56				
	RES, 3.32, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06033R32FKEA	4
R24, R26	1(LO, 0.02, 170, 0.1 VV, 0000	Visitay Daic	OKOW 00035K3ZI KEA	7
	RES, 10.0 ohm, 1%, 0.25W, 0805	Stackpole Electronics	RNCP0805FTD10R0	4
R20, R23	10.0 011111, 170, 0.23vv, 0000	Inc	KIVOI 0003I IBTOIN	
	RES, 75.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060375K0FKEA	1
	RES, 47.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0747KL	1
	RES, 4.70 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-074K7L	1
	RES, 13 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060313K0JNEA	1
	RES, 22 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060313K03NEA	2
	RES, 15 k, 5%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW060322K0JNEA	2
	RES, 1.00 k, 1%, 0.25 W, 1206	Vishay-Dale Vishay-Dale	CRCW12061K00FKEA	1
	RES, 10 k, 5%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW060310K0JNEA	2
	RES, 5.6 k, 5%, 0.25 W, 1206	Vishay-Dale Vishay-Dale	CRCW12065K60JNEA	1
R36	RES, 0.02, 1%, 0.5 W, 1206	Stackpole Electronics	CSR1206FK20L0	1
130	11.EO, 0.02, 170, 0.0 VV, 1200	Inc	OSICI ZOOI NZOLO	'
R38	RES, 499 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603499KFKEA	1
	RES, 3.9, 5%, 0.25 W, 1206	Vishay-Dale Vishay-Dale	CRCW12063R90JNEA	2
	RES, 4.02 k, 1%, 0.1 W, 0603	Vishay-Dale Vishay-Dale	CRCW06034K02FKEA	3
R45, R46, R52	INCO, 4.02 N, 170, 0.1 VV, 0003	v isi iay-Daie	ONO VV UUUS4NUZFNEA	3
NUZ				

Designator	Description	Manufacturer	PartNumber	Quantity
	RES, 0.01, 1%, 0.5 W, 1206	Stackpole Electronics	CSR1206FK10L0	1
		Inc		
R48	RES, 402 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603402KFKEA	1
R49, R61	RES, 10.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0FKEA	2
R50	RES, 37.4 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060337K4FKEA	1
R51	RES, 1.0 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00JNEA	1
R53	RES, 10.0, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310R0FKEA	1
R55	RES, 232 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603232KFKEA	1
R57	RES, 5.23 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06035K23FKEA	1
R58, R59	RES, 32.4 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060332K4FKEA	2
R60	RES, 30.1 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060330K1FKEA	1
SW1, TP1,	Test Point, TH, Miniature, Red, Test Point, Miniature,	Keystone	5000	8
TP2, TP5,	Red, TH, Test Point, Miniature, Red, TH, Test Point,			
TP7, TP9,	Miniature, Red, TH, Test Point, Miniature, Red, TH, Test			
TP10, TP11	Point, Miniature, Red, TH, Test Point, Miniature, Red,			
	TH, Test Point, Miniature, Red, TH			
TP3, TP4,	Test Point, Miniature, Black, TH	Keystone	5001	5
TP6, TP8,				
TP12				
TP13,	Terminal, Turret, TH, Double	Keystone	1502-2	4
TP14,				
TP15, TP23				
TP16,	Terminal, Turret, TH, Double	Keystone	1503-2	8
TP17,				
TP18,				
TP19,				
TP20,				
TP21,				
TP22, TP24				
U1	High Efficiency Low-Side N-Channel Controller for	Texas Instruments	LM3481MM	1 1
	Switching Regulators, 10-pin MSOP			
U2	30W Filter-Free Class-D Stereo Amplifier Family with	Texas Instruments	TPA3118D2DAPR	1
	AM Avoidance, DAP0032A			
U3	Low Power Quad Op Amp	National Semiconductor	LM324AM	1
U4	Synchronous Switch-Mode Li-Ion and Li-Polymer Stand-	Texas Instruments	BQ24133RGYR	1
	Alone Battery Charger, -40 to 85 degC, 24-pin VQFN			
	(RGY), Green (RoHS & no Sb/Br)			

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