

PCB	Hugh 4R			
Part No.	Part No.	Value	Device	Package
C101	C2	220pF	FKP2D002201D00HSSDAUDIO	C5B4.5
C102	C1	10μF	MCAP250-10AUDIO	MCAP250V10U
C103	C1	0μ1	MKP4-.1/400/10P15AUDIO	C15B5
C104	C1	10μF	MKP4D051007E00JSSDAUDIO	C37.5B19
C105	C1	10μF	RFS-100V100MH4#5AUDIO	C_D10_H16_RM5MM
C111	C3	47uF	RFS-50V101MI5#5AUDIO	C_D12_5_H20_RM5MM
C114	C4	15pF	CD15CD150JO3FAUDIO	C_CD15
C115	C4	15pF	885012008062AUDIO	C1206
C121	C5	4700pF	12061A472KAT2AAUDIO	C1206
C122	C5	4700pF	MKS4O114703C00JSSDAUDIO	C10B4
C124	C6	220μF	UES1E471MHMAUDIO	C_NP_D16_H25_RM7MM5
C125	C7			
C126	C7			
C131	C8	100uF	RFS-35V221MI6#5AUDIO	C_D12_5_H25_RM5MM
C132	C9	100uF	RFS-35V221MI6#5AUDIO	C_D12_5_H25_RM5MM
C133	C12	150pF	12061A151JAT2AAUDIO	C1206
C134	-	2200pF	12061A222JAT2AAUDIO	C1206
C143	C18	0μ1	MKP4F031002D00JF00AUDIO	C7.5B5
C151	C15	220μF	EEU-FC1V221LAUDIO	C_D8_H15_RM3MM5
C152	C17	220μF	EEU-FC1V221LAUDIO	C_D8_H15_RM3MM5
C153	C14	0μ1	MKP4F031002D00JF00AUDIO	C7.5B5
C154	C16	0μ1	MKP4F031002D00JF00AUDIO	C7.5B5
C171	-	0μ022	885342208014AUDIO	C1206
C1210	C5			
C1220	C5			
C1240	C6			
C1250	C7	10pF	CD15CD100JO3FAUDIO	C_CD15
C1260	C7	10pF	885012008061AUDIO	C1206
H121	LED2	TLHR4200	TLHR4200AUDIO	TLHR4200
H161	-	LTL-4231N	LTL-4231NAUDIO	LED3MM
H162	-	LTL-4231N	LTL-4231NAUDIO	LED3MM
R101	R1	2k2	CMF-55AUDIO	CMF-55
R102	R2	220k	CMF-55AUDIO	CMF-55
R103	R3	22k0	CMF-55AUDIO	CMF-55
R104	Rg	10R0	CMF-55AUDIO	CMF-55
R111	R4	3k3	CMF-55AUDIO	CMF-55
R112	R5	5K	CMF-55AUDIO	CMF-55
R113	R5	Need pot		
R114	R6	330R	CMF-55AUDIO	CMF-55
R115	R7	33R0	CMF-55AUDIO	CMF-55
R121	R8	820R	CMF-55AUDIO	CMF-55
R122	R9	1k2	CMF-55AUDIO	CMF-55
R123	R10	330k	CMF-55AUDIO	CMF-55
R124	R12	820R	CBT25J820RAUDIO	CBT-10MM
R126	R11	22k0	CBT25J22000RAUDIO	CBT-10MM
R131	R20	1k2	CMF-55AUDIO	CMF-55
R132	R21	820R	CMF-55AUDIO	CMF-55
R133	R14	100R	CBT25J100RAUDIO	CBT-10MM

R134	R17	1k0	CMF-55AUDIO	CMF-55
R135	R19	100R	CBT25J100RAUDIO	CBT-10MM
R136	-	4R7	CMF-55AUDIO	CMF-55
R137	R18	1k0	CMF-55AUDIO	CMF-55
R141	R15	0R12	BPR58CR22JAUDIO	R_BRP58
R142	R16	0R12	BPR58CR22JAUDIO	R_BRP58
R143	R23	10R0	CMF60-ON-LUGAUDIO	CMF60-ON-LUG
R161	-	14k7	CMF-55AUDIO	CMF-55
R162	-	14k7	CMF-55AUDIO	CMF-55
R171	RL1		SL15_47003AUDIO	SL15_47003
V111	Q1	KSA992FTA	KSA992FTAAUDIO	V_TO92_BL_ECB
V112	Q2	KSA992FTA	KSA992FTAAUDIO	V_TO92_BL_ECB
V113	Q3	KSC3503DS	KSC3503DSAUDIO	V_TO126AV
V114	D1	1N4148	1N4148AUDIODO35-10	DO35-10
V115	Q3	TTC004B	TTC004B,QAUDIO	V_TO126AV
V117	D2	1N4148	1N4148AUDIODO35-10	DO35-10
V118	D3	1N4148	1N4148AUDIODO35-10	DO35-10
V121	LED1	1N4148	1N4148AUDIODO35-10	DO35-10
V122	D4	'As Built' is 2.7V Zener		
V131	Q4	BD140	BD140AUDIO	V_TO126AV
X101		22232021	22-23-2021AUDIO	22-23-2021
X111		SSW-103-01-G-S	SSW-103-01-G-SAUDIO	SSW-103-01-G-S
X121			22-23-2021AUDIO	22-23-2021
X141		64900421122	64900421122AUDIO	64900421122
X142		64900421122	64900421122AUDIO	64900421122
X143		64900421122	64900421122AUDIO	64900421122
X144		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X145		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X151		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X152		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X153		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X161			22-23-2021AUDIO	22-23-2021
X162			22-23-2021AUDIO	22-23-2021
X171		726386-2	1-726386-2AUDIOLONG	726386-2_LONG
X181			22-23-2021AUDIO	22-23-2021
X1013			HSS-B20-053H-01AUDIO	HSS-B20-053H-01

Choose one or the other; 'As Built' is silver mica.

Choose one or the other; 'As Built' is MKS.

Choose one or the other; 'As Built' is NPO.

Choose one or the other; 'As Built' is KSC3503DS.

Red text means that the value in Col C has changed from the 8R cct - so the Mouser

## Description

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Polypropylene (PP) Film/Foil Capacitors for Pulse Applications 220p 100V 2.5% FKP2

Fidelity Component MCap 10  $\mu$ 0 250V 5%

Metallized Polypropylene (PP) Capacitor MKP4 0  $\mu$ 1 400V 10%

Metallized Polypropylene (PP) Capacitor MKP4 10  $\mu$ 0 100V 5%

SILMIC series Silk fiber using audio purpose capacitor RFS 10  $\mu$ 0 100V

SILMIC series Silk fiber using audio purpose capacitor RFS 47  $\mu$  50V

Mica Capacitor Standard Dipped CD15 15p 500V 5%

Multilyaer Ceramic Capacitor MLCC 15p 100V NPO 1206

Multilyaer Ceramic Capacitor MLCC 4700p 100V NPO 1206

Metallized Polyester (PET) Capacitors 4700p 1000V 5% MKS4

Aluminium Electrolytic Capacitor ES MUSE Series Bipolar 220  $\mu$  25V

SILMIC series Silk fiber using audio purpose capacitor RFS 100  $\mu$  35V

SILMIC series Silk fiber using audio purpose capacitor RFS 100  $\mu$  35V

Multilyaer Ceramic Capacitor MLCC 150p 100V NPO 1206

Multilyaer Ceramic Capacitor MLCC 2200p 100V NPO 1206

Metallized Polypropylene (PP) Capacitor MKP4 0  $\mu$ 1 250V 5%

Aluminium electrolytic Capacitor Series FC Type A 220  $\mu$  35V 20%

Aluminium electrolytic Capacitor Series FC Type A 220  $\mu$  35V 20%

Metallized Polypropylene (PP) Capacitor MKP4 0  $\mu$ 1 250V 5%

Metallized Polypropylene (PP) Capacitor MKP4 0  $\mu$ 1 250V 5%

Multilyaer Ceramic Capacitor MLCC 0  $\mu$ 022 630V X7R 1206

Mica Capacitor Standard Dipped CD15 10p 500V 5%

Multilyaer Ceramic Capacitor MLCC 10p 100V NPO 1206

High Efficiency LED in  $\tilde{A}$  3 mm Tinted Non-Diffused Package Red TLHR4200

THT 3mm LED Green Diffused 2.1V 10mA

THT 3mm LED Green Diffused 2.1V 10mA

Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

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Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

Rectangular type metal plate resistors BPR58 5W 0R22 5% 350ppm

Rectangular type metal plate resistors BPR58 5W 0R22 5% 350ppm

Generic Metal Film Resistors, Axial, Industrial, Precision 500V 1W 1% 50ppm CMF60

Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

Generic Metal Film Resistors, Axial, Industrial, Precision 250V 0.5W 1% 50ppm CMF55

Circuit Protection Thermistor 115/230VAC 47R0 3A 20%

PNP Epitaxial Silicon Transistor KSA992 TO92

PNP Epitaxial Silicon Transistor KSA992 TO92

Bipolar Silicon NPN Epitaxial Transistor KSC3503 300V 0.1A 150MHz TO-126N

Small Signal Diode 1N4148 DO-35

Bipolar Silicon NPN Epitaxial Transistor TTC004B 160V 1.5A 12p 100MHz TO-126N

Small Signal Diode 1N4148 DO-35

Small Signal Diode 1N4148 DO-35

Small Signal Diode 1N4148 DO-35

### 2.7V Zener

Low Voltage PNP Transistor BD140 -80V 1.5A TO-126

KK 254 Solid Header, Vertical, with Friction Lock, 2 Circuits, Tin (Sn) Plating 22232021

THROUGH-HOLE .025 SQ POST SOCKET 3 pol."

KK 254 Solid Header, Vertical, with Friction Lock, 2 Circuits, Tin (Sn) Plating 22232021

WR-MPC4 4.20mm Male Dual Row Vertical Header, 4 Pins=>Code : Con\_WTB\_MPC4\_2\_PCB\_649004;

WR-MPC4 4.20mm Male Dual Row Vertical Header, 4 Pins=>Code : Con\_WTB\_MPC4\_2\_PCB\_649004;

WR-MPC4 4.20mm Male Dual Row Vertical Header, 4 Pins=>Code : Con\_WTB\_MPC4\_2\_PCB\_649004;

Faston TAB 6.3 x 0.8 PCB

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Faston TAB 6.3 x 0.8 PCB

Faston TAB 6.3 x 0.8 PCB

Faston TAB 6.3 x 0.8 PCB

KK 254 Solid Header, Vertical, with Friction Lock, 2 Circuits, Tin (Sn) Plating 22232021

KK 254 Solid Header, Vertical, with Friction Lock, 2 Circuits, Tin (Sn) Plating 22232021

Faston TAB 6.3 x 0.8 PCB

KK 254 Solid Header, Vertical, with Friction Lock, 2 Circuits, Tin (Sn) Plating 22232021

Stamped Heatsink TO-220 Aluminium PCB 5.3mm Horizontal Solder Pin

product code is probably different.

COMMENTS	DIELECTRIC	MANDATORY	MF
	PP	1	WIMA
	PP	1	MUNDORF
	PP	1	WIMA
	PP	1	WIMA
SILMIC II	SILMIC	1	ELNA
	AL-ELYT.	1	ELNA
	MICA	1	CORNELL DUBILIER
	NPO	1	WÄERTH ELEKTRONIK
	NPO	1	AVX
MKS4	PET	1	WIMA
MUSE	AL-ELYT.	1	NICHICON
RFS	SILMIC II	1	ELNA
RFS	SILMIC II	1	ELNA
	NPO	1	AVX
	NPO	1	AVX
MKP4	PP	1	WIMA
FC	AL-ELYT.	1	PANASONIC
FC	AL-ELYT.	1	PANASONIC
MKP4	PP	1	WIMA
MKP4	PP	1	WIMA
	X7R	1	WÄERTH ELEKTRONIK
	MICA	1	CORNELL DUBILIER
	NPO	1	WÄERTH ELEKTRONIK
RED		1	VISHAY
3mm		1	LITE-ON
3mm		1	LITE-ON
		1	VISHAY
		1	VISHAY
		1	VISHAY
		1	VISHAY
		1	VISHAY
		1	VISHAY
		1	VISHAY
CARBON		1	TE
CARBON		1	TE
		1	VISHAY
		1	VISHAY
CARBON		1	TE

CARBON	1 VISHAY
	1 TE
	1 VISHAY
	1 VISHAY
BPR58	1 KOA
BPR58	1 KOA
CMF60	1 VISHAY
	1 VISHAY
	1 VISHAY
	1 AMETHERM
	1 ON SEMICONDUCTORS
	1 ON SEMICONDUCTORS
	1 ON SEMICONDUCTOR
	1 ON SEMICONDUCTORS
	1 TOSHIBA
	1 ON SEMICONDUCTORS
	1 ON SEMICONDUCTORS
	1 ON SEMICONDUCTORS
	1 CENTRAL SEMICONDUCTOR CORP.
	1 ST
	1 MOLEX
	1 SAMTEC
	1 MOLEX
21122	
21122	
21122	
	1 TE
	1 TE
	1 TE
	1 TE
	1 TE
	1 MOLEX
	1 MOLEX
	1 TE
	1 MOLEX
	1 CUI DEVICES

MOUSER	MP	MPN	PACKAGE	POPULATE	TOLERANCE
		FKP2D002201D00HSSD	THT	0	2.50%
		MCAP250-10	THT	1	5%
		MKP4-.1/400/10P15		1	10%
		MKP4D051007E00JSSD	THT	1	5%
		RFS-100V100MH4#5	THT	1	
555-RFS-50V101MI5#5		RFS-50V101MI5#5	THT	1	20%
598-CD15CD150JO3F		CD15CD150JO3F	CD15	1	5%
710-885012008062		8.85012E+11	C1206	1	5%
581-12061A472KAT2A		12061A472KAT2A	C1206	1	10%
505-MKS4O114703C00JS		MKS4O114703C00JSSD	THT	1	5%
647-UES1E471MHM		UES1E471MHM	THT	1	20%
555-RFS35V221MI6#5		RFS-35V221MI6#5	THT	1	20%
555-RFS35V221MI6#5		RFS-35V221MI6#5	THT	1	20%
581-12061A151J		12061A151JAT2A	C1206	1	10%
581-12061A222JAT2A		12061A222JAT2A	C1206	1	10%
505-MKP4F031002D00JF00		MKP4F031002D00JF00	THT	1	5%
667-EEU-FC1V221L		EEU-FC1V221L	THT	1	20%
667-EEU-FC1V221L		EEU-FC1V221L	THT	1	20%
505-MKP4F031002D00JF00		MKP4F031002D00JF00	THT	1	5%
505-MKP4F031002D00JF00		MKP4F031002D00JF00	THT	1	5%
710-885342208014		8.85342E+11	C1206	1	10%
598-CD15CD100JO3F		CD15CD100JO3F	CD15	1	5%
710-885012008061		8.85012E+11	C1206	1	5%
78-TLHR4200		TLHR4200	THT	1	
859-LTL-4231N		LTL-431N	THT	1	
859-LTL-4231N		LTL-431N	THT	1	
	CMF55		CMF55	1	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	1	1%
279-CBT25J820R		279-CBT25J820R	THT	1	5%
279-CBT25J22000R		279-CBT25J22000R	THT	1	5%
	CMF55		CMF55	0	1%
	CMF55		CMF55	1	1%
279-CBT25J100R		CBT25J100R	THT	1	5%

	CMF55		CMF55	1	1%
279-CBT25J100R		CBT25J100R	THT	1	5%
	CMF55		CMF55	1	1%
	CMF55		CMF55	0	1%
660-BPR58CR22J		BPR58CR22J	THT	1	5%
660-BPR58CR22J		BPR58CR22J	THT	1	5%
		CMF60	CMF60	1	1%
	CMF55		CMF55	0	1%
	CMF55		CMF55	0	1%
		SL15 47003	THT	1	20%
KSA992FTA		KSA992FTA	TO92-BENT	1	
KSA992FTA		KSA992FTA	TO92-BENT	1	
512-KSC3503DS		KSC3503DS	TO-126	1	
1N4148		1N4148	DO35-10	1	
757-TTC004BQ		TTC004B,Q	TO-126	1	
1N4148		1N4148	DO35-10	1	
1N4148		1N4148	DO35-10	1	
1N4148		1N4148	DO35-10	1	
			DO-35	1	5%
511-BD140		BD140	TO-126	1	
			22232021 THT	1	
200-SSW10301GS		SSW-103-01-G-S	THT	1	
			22232021 THT	1	
571-726386-2		726386-2	THT	1	
571-726386-2		726386-2	THT	1	
571-726386-2		726386-2	THT	1	
571-726386-2		726386-2	THT	1	
571-726386-2		726386-2	THT	1	
			22232021 THT	1	
			22232021 THT	1	
571-726386-2		726386-2	THT	1	
			22232021 THT	1	
490-HSS-B20-053H-01		HSS-B20-053H-01	THT	1	

VOLTAGE	WATTAGE
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100V

250V

400V

100V

100V

50V

500V

100V

100V

1000V

25V

35V

35V

100V

100V

250V

35V

35V

250V

250V

630V

500V

100V

2V

250V	0.5W
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250V	0.5W
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250V	0.5W
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250V	0.5W
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250V	0.5W
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250V	0.5W
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250V	0.5W
------	------

250V	0.5W
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250V	0.5W
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250V	0.5W
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250V	0.5W
------	------

250V	1W
------	----

250V	1W
------	----

250V	0.5W
------	------

250V	0.5W
------	------

250V	250mW
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250V	0.5W
250V	250mW
250V	0.5W
250V	0.5W
	5W
	5W
500V	1W
250V	0.5W
250V	0.5W

100V

100V	
100V	
100V	
2V7	500mW
-80V	
250V (CSA)	
250V (CSA)	

250V (CSA)
250V (CSA)
250V (CSA)