

## G3VM-101MT Reference Design Board for DC Parametric Measurement

Designator	QTY	Part number	Manufacturer	Description
U4,U14,U24	3	AD712JRZ-REEL7	AD	IC OPAMP JFET 2 CIRCUIT 8SOIC
U3,U13,U23	3	INA110KU	TI	IC INST AMP 1 CIRCUIT 16SOIC
U2,U12,U22	3	LMP7715MF/NOPB	TI	IC OPAMP GP 1 CIRCUIT SOT23-5
U1,U11,U21	3	LMP7721MA/NOPB	TI	IC OPAMP GP 1 CIRCUIT 8SOIC
U5,U6	2	SN74LVC2G06DBVR	TI	IC INVERTER OD 2CH 2-INP SOT23-6
U7,U15,U25	3	LM317AMDTX/NOPB	TI	IC REG LIN POS ADJ 1.5A TO252-3
U8,U16,U26	3	LM337KVURG3	TI	IC REG LIN NEG ADJ 1.5A TO252-3
RL1,RL2,RL4,RL5	4	G3VM-101MT	OMRON	MOS FET RELAY IN MODULE PACKAGE
RL3,RL6,RL13,RL16,RL23,RL26	6	G3VM-21UR10	OMRON	SSR RELAY SPST-NO 200MA 0-20V
RL21,RL22,RL24,RL25	4	G3VM-101QR1	OMRON	SSR RELAY SPST-NO 650MA 0-100V
L1,L2,L3,L4,L5,L6,L7,L8,L11,L12,L13,L14,L15,L16,L17,L18, L21,L22,L23,L24,L25,L26,L27,L28	24	BLM21PG221SN1D	Murata	FERRITE BEAD 220 OHM 0805 1LN
C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C14,C16,C18,C20,C23, C24,C33,C34,C35,C36,C37,C38,C39,C40,C42,C44,C46,C48, C51,C52,C63,C64,C65,C66,C67,C68,C69,C70,C72,C74,C76, C78,C81,C82	44	GRM155R61H104KE19D	Murata	CAP CER 0.1UF 50V X5R 0402
C1,C2,C31,C32,C61,C62	6	GRM1552C1H102JA01D	Murata	CAP CER 1000pF 50V X7R 0402
C21,C22,C49,C50,C79,C80	6	GRM219R61H105KA73D	Murata	CAP CER 1UF 50V X5R 0805
C13,C15,C17,C19,C41,C43,C45,C47,C71,C73,C75,C77	12	EEE1VA100SR	Panasonic	CAP ALUM 10UF 20% 35V SMD
C25,C26,C53,C54,C83,C84	6	EEE1VA470WP	Panasonic	CAP ALUM 47UF 20% 35V SMD
R6,R12,R13,R16,R42,R48,R49,R52,R62,R68,R69,R72	12	RK73Z1JTDD	KOA	RES 0 OHM JUMPER 0603
R1,R2,R3,R4	4	RK73B2ETTD680J	KOA	RES 68 OHM 5% 1/2W 1210
R5,R8,R11,R14,R41,R44,R47,R50,R61,R64,R67,R70	12	RK73H1JTDD1000F	KOA	RES 100 OHM 1% 1/8W 0603
R31,R32,R33,R34,R55,R56,R57,R58,R79,R80,R81,R82	12	RK73H1JTDD1200F	KOA	RES 120 OHM 1% 1/8W 0603
R20,R22,R27,R29	4	RK73H1JTDD2200F	KOA	RES 220 OHM 1% 1/8W 0603
R19,R21,R23,R26,R28,R30,R73,R74,R75,R76,R77,R78	12	RK73H1JTDD3300F	KOA	RES 330 OHM 1% 1/8W 0603
R53,R54	2	RK73B2ATTD102J	KOA	RES 1K OHM 5% 1/4W 0805
R7,R15,R17,R18,R24,R25,R43,R51,R63,R71	10	RK73B1JTDD103J	KOA	RES 10K OHM 5% 1/10W 0603
R9,R45,R65	3	CRHV1206AF100MFKE5	vishay	RES SMD 100M OHM 1% 0.3W 1206
SW1,SW2,SW3	3	A6S-8102-H	OMRON	SWITCH SLIDE DIP SPST 25MA 24V
D1,D2,D3,D4,D5,D6,D7,D8,D9,D10	10	CMG02(T2L,TEMQ)	TOSHIBA	DIODE GEN PURP 400V 2A M-FLAT
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13, TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP31,TP32,TP33, TP34,TP35,TP36,TP37,TP38,TP39,TP40,TP41,TP42,TP43,TP44, TP45,TP46,TP47,TP48,TP49,TP50,TP51,TP61,TP62,TP63,TP64, TP65,TP66,TP67,TP68,TP69,TP70,TP71,TP72,TP73,TP74,TP75, TP76,TP77,TP78,TP79,TP80,TP81	63	HK-2-G	MAC8	SMD Terminal
R10,R46,R66	3	—	—	1206 Pads only
CN1,CN2,CN11,CN12,CN21,CN22	6	B4P-VH(LF)(SN)	JST	CONN HEADER VERT 4POS 3.96MM
CN4,CN14,CN24	3	B8P-VH(LF)(SN)	JST	CONN HEADER VERT 8POS 3.96MM
CN3,CN13,CN23	3	B9P-VH(LF)(SN)	JST	CONN HEADER VERT 9POS 3.96MM
RL11,RL12,RL14,RL15	4	—	—	REED RELAY 12VDC 100V 0.5A
RL11,RL12,RL14,RL15	4	SGN-D08/16-J10-GG-T22-MKW (8PIN)	JC	Socket Terminal Plug 8POS 2.54MM
DUT1,DUT2,DUT3,DUT4,DUT5,DUT6	24	PD-1	MAC8	Test Terminal
DUT1,DUT2,DUT3,DUT4,DUT5,DUT6	6	1N3595	TOSHIBA	DIODE GEN PURP 150V 200MA DO35