

Curve Tracer Front Panel Rev 1

Surface Mount

Quantity	Designator	Description	Footprint	Cap	Value	Res	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number
11	C7a, C100, C106, C108, C117, C122, C123, C128, C134, C137, C140	CAP ALUM 100UF 20% 35V THRU HOLE	CAPPR2.5-6.3X10	100uF	100uF		Rubycon	35YXJ100M6.3X11	Digi-Key	1189-2260-ND
14	C10, C102, C104, C107, C119, C121, C125, C127, C133, C136, C139, C143, C145, C147	CAP CER 10NF 25V X7R 1206	CAPC3216M	10nF	10nF		KEMET	C1206C103K3RACTU	Digi-Key	399-14644-1-ND
13	C11, C14, C101, C103, C124, C126, C129, C132, C135, C138, C141, C144, C146	CAP CER 1UF 25V X7R 1206	CAPC3216M	1uF	1uF		KEMET	C1206C105M3RACTU	Digi-Key	399-8148-1-ND
2	C105, C130	CAP CER 10PF 100V NP0 1206	CAPC3216M	10pF	10pF		Kemet	C1206C100J1GACTU	Digi-Key	399-8124-1-ND
2	C109, C118	CAP CER 10UF 25V X7R 1206	CAPC3216M	10uF	10uF		Taiyo Yuden	TMK316B7106KL-TD	Digi-Key	587-2399-1-ND
1	C131	CAP FILM 1UF 20% 16VDC 1210	CAPC3225M	1uF	0.1uF		Panasonic	ECPU1C105MA5	Digi-Key	PCF1132CT-ND
2	D1, D4	Diode Switching 400V 1A 2-Pin DO-214AC	SMA-D	12pF	S1G		ON Semiconductor	S1G	Digi-Key	S1GFSCT-ND
3	D100, D101, D126	DIODE GP 75V 150MA SOD123FL	SOD123		1N4148		Vishay Semiconductor	1N4148WFL-G3-08	Digi-Key	1N4148WFL-G3-08GICT-ND
1	Q100	TRANS NPN 80V 1A SOT-223	SOT223-4M		BCP56		ON Semiconductor	BCP56-16T3G	Digi-Key	BCP56-16T3GOSCT-ND
1	Q101	TRANS PNP 80V 1.5A SOT-223	SOT223-4M		BCP53		ON Semiconductor	BCP53-16T3G	Digi-Key	BCP53-16T3GOSCT-ND
5	R100, R102, R131, R137, R140	RES 1K OHM 1% 1/4W 1206	RESC3216M		1K	1kR	Stackpole Electronics	RMCF1206FT1K00	Arrow	RMCF1206FT1K00CT-ND
6	R101, R104, R119, R143, R146, R147	RES 10K OHM 1% 1/4W 1206	RESC3216M		10K	10kR	Stackpole Electronics	RMCF1206FT10K0	Digi-Key	RMCF1206FT10K0CT-ND
12	R103, R105, R106, R107, R108, R109, R111, R113, R141, R142, R144, R145	RES 100K OHM 1% 1/4W 1206	RESC3216M		100K	100kR	Stackpole Electronics	RMCF1206FT100K	Digi-Key	RMCF1206FT100KCT-ND
2	R110, R114	RES 3.01 OHM 1% 1/4W 1206	RESC3216M		3.01	3R01	Stackpole Electronics	RMCF1206FT3R01	Digi-Key	RMCF1206FT3R01CT-ND
1	R112	RES 100 OHM 1% 1/4W 1206	RESC3216M		100	100R	Stackpole Electronics	RMCF1206FT100R	Digi-Key	RMCF1206FT100RCT-ND
1	R115	RES 33.2K OHM 1% 1/4W 1206	RESC3216M		33.2K	33.2kR	Stackpole Electronics	RMCF1206FT33K2	Digi-Key	RMCF1206FT33K2CT-ND
1	R116	RES 49.9K OHM 1% 1/4W 1206	RESC3216M		49.9K	49.9kR	Stackpole Electronics	RMCF1206FT49K9	Digi-Key	RMCF1206FT49K9CT-ND
1	R125	RES 1.5M OHM 1% 1/4W 1206	RESC3216M		1.5M	1.5MR	Stackpole Electronics	RMCF1206FT1M50	Digi-Key	RMCF1206FT1M50CT-ND
1	R126	RES 750K OHM 1% 1/4W 1206	RESC3216M		750K	750kR	Stackpole Electronics	RMCF1206FT750K	Digi-Key	RMCF1206FT750KCT-ND
1	R128	RES 301K OHM 1% 1/4W 1206	RESC3216M		301K	301kR	Stackpole Electronics	RMCF1206FT301K	Digi-Key	RMCF1206FT301KCT-ND
1	R129	RES 150K OHM 1% 1/4W 1206	RESC3216M		150K	150kR	Stackpole Electronics	RMCF1206FT150K	Digi-Key	RMCF1206FT150KCT-ND
1	R130	RES 75K OHM 1% 1/4W 1206	RESC3216M		75K	75kR	Stackpole Electronics	RMCF1206FT75K0	Digi-Key	RMCF1206FT75K0CT-ND
1	R132	RES 30.1K OHM 1% 1/4W 1206	RESC3216M		30.1K	30.1kR	Stackpole Electronics	RMCF1206FT30K1	Digi-Key	RMCF1206FT30K0CT-ND
1	R133	RES 15K OHM 1% 1/4W 1206	RESC3216M		15K	15kR	Stackpole Electronics	RMCF1206FT15K0	Digi-Key	RMCF1206FT15K0CT-ND
1	R134	RES 7.50K OHM 1% 1/4W 1206	RESC3216M		7.5K	7.5kR	Stackpole Electronics	RMCF1206FT7K50	Digi-Key	RMCF1206FT7K50CT-ND
1	R135	RES 3.01K OHM 1% 1/4W 1206	RESC3216M		3.01K	3.01kR	Stackpole Electronics	RMCF1206FT3K01	Digi-Key	RMCF1206FT3K01CT-ND
1	R136	RES 1.5K OHM 1% 1/4W 1206	RESC3216M		1.5K	1.5kR	Stackpole Electronics	RMCF1206FT1K50	Digi-Key	RMCF1206FT1K50CT-ND
1	R138	RES 750 OHM 1% 1/4W 1206	RESC6432M		750	750R	Stackpole Electronics	RMCF1206FT750R	Digi-Key	RMCF1206FT750RCT-ND
1	R139	RES 301 OHM 1% 1/4W 1206	RESC6432M		301	301R	Stackpole Electronics	RMCF1206FT301R	Digi-Key	RMCF1206FT301RCT-ND
1	R148	RES 1' OHM 1% 1/4W 1206	RESC6432BM		1.0	1R	Stackpole Electronics	RMCF1206FT1R00	Digi-Key	RMCF1206FT1R00CT-ND
1	U1	UA78L15ACPK 15V 0.1A SOT-89-3	SOT89M		78L15		Texas Instruments	UA78L15ACPK	Digi-Key	296-12002-1-ND
1	U101	IC AUDIO AMP 2 CIRCUIT 8VSSOP	SOIC127P600X168_HS-8N		OPA1678		Texas Instruments	OPA1678IDGKT	Digi-Key	296-46561-2-ND
3	U103, U125, U126	IC OPAMP AUDIO 11MHZ RRO 8SOIC	SOIC127P600X168_HS-8N		OPA1641AIDR		Texas Instruments	OPA1641AIDR	Digi-Key	296-48624-1-ND
1	U104	Decoder/Demultiplexer 16-Pin SOIC T/R	D16-M		4028		ON Semiconductor	MC14028BDR2G	Digi-Key	MC14028BDR2GOSCT-ND
1	U105	IC OPAMP10 MHz,10 V/s, 4.5V to 36V, SC-70	SOT23-5AM		OPA172		Texas Instruments	OPA172IDBVR	Digi-Key	296-40433-1-ND

Through Hole

2	D14, D50	LED RED DIFFUSED T-1 3/4 T/H	LED-RED-3MM		RED LED		VCC CHML	4304H1	Digi-Key	L71532-ND
1	D51	LED GREEN DIFF 5MM ROUND T/H	LED-GRN-3MM		Green LED		VCC CHML	4304H5	Digi-Key	L71533-ND
4	J1, J50, J51, J128	CONN HEADER VERT 3POS 2.54MM	DTA-100-3		640456-3		TE Connectivity	640456-3	Digi-Key	A19470-ND
5	J2, J3, J52, J100, J127	CONN HEADER VERT 2POS 2.54MM	DTA-100-2		640456-2		TE Connectivity	640456-2	Digi-Key	A1921-ND
1	J101	CONN HEADER VERT 4POS 2.54MM	DTA-100-4		640456-4		TE Connectivity	640456-4	Digi-Key	A1922-ND
2	J125, J126	CONN BNC JACK STR 50 OHM PCB	BNC-Vert		1-1634505-0		TE Connectivity	1-1634505-0	Digi-Key	A97558-ND
2	J126, J129	Conn Banana F 1 POS ST Panel Mount 1 Port	Banana-Turret		Banana		Bel Cinch	108-2303-621	Digi-Key	J10142-ND
2	J127, J130	Banana Jack	Banana-Turret		Banana			1		
2	J128, J131	Conn Banana F 1 POS ST Cable Mount 1 Port	Banana-Turret		Banana		Bel Cinch	108-2302-621	Digi-Key	J10124-ND
2	Pot50, Pot101	PNL MNT 20K OHM 0.125W	Off-PCB		20K		Alpha Taiwan	RV16AF-10-15R1-B20K-3LA	Mouser	313-1000F-20K

2	Pot53, Pot125	PNL MNT 100K OHM 0.125W	Off-PCB		100K		Alpha Taiwan	RV16AF-10-15R1-B100K-3LA	Mouser	313-1000F-100K, 311N501-F
1	Pot100	TRIMMER 1K OHM 0.2W PC PIN TOP	3306P-CCW		1K	1kR	Bourns	3306P-1-102	Digi-Key	3306P-102-ND
1	S100	SWITCH TOGGLE 4PDT 5A 120V	EG2428		EG2428		E-Switch	1004P1T1B1M1QEH	Digi-Key	EG2428-ND
1	S101	SWITCH TOGGLE SPDT 5A 120V Center Off	EG2375		EG2375		E-Switch	100SP3T1B1M1QEH	Digi-Key	EG2375-ND
2	S102, S103	SWITCH ROTARY 12POS 2.5A 125V	A112		A11203		ITT C&K	A11203RNCQ	Digi-Key	CKN10200-ND
1	S104	SWITCH TOGGLE SPDT 5A 120V	EG2375		EG2350		E-Switch	100SP1T1B1M1QEH	Digi-Key	EG2350-ND
1	S127	SWITCH TOGGLE DPDT 5A 120V	EG2413		EG2413		E-Switch	100DP3T1B1M1QEH	Digi-Key	EG2413-ND
8	TP5, TP7, TP13, TP100, TP101, TP103, TP104, TP105	TP Thru-Hole	TP-.038		TP Thru-Hole		UW	Gold	UW	Gold