

Title: TIDA-00278 TPS7A6633-Q1 BOM  
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**Automotive Cluster Telltale Driver Reference Design**

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
U1	1		Automotive, 150mA, High Voltage, Ultra Low Iq, Low Drop Out Regulator	8PIN MSOP-PowerPAD (DGN)	TPS7A6633QDGNRQ1	Texas Instruments
C2	1	1.0uF	CAP CER 1UF 50V 10% X7R 0603	0603	UMK107AB7105KA-T	Taiyo Yuden
C3	1	4.7uF	CAP CER 4.7UF 10V 10% X7R 0805	0805	LMK212B7475KG-T	Taiyo Yuden
C4	1	1000pF	CAP CER 1000PF 50V 10% NP0 0603	0603	06035A102KAT2A	AVX
D1	1		DIODE SCHOTTKY 50V 1A SMA	SMA	B150-13-F	Diodes Inc.
R1	1	10k	RES 10K OHM 1/10W 5% 0603 SMD	0603	CRCW060310K0JNEA	Vishay Dale
J1	1		CONN HEADER 3POS .100" STR TIN		90120-0123	Molex
GND, GND, GND, TP_EN, TP_FB, TP_PG, TP_Vin, TP_Vout, Vin, Vout	10		TEST POINT PC MINI .040"D BLACK		5001	Keystone Electronics
PCB	1		PCB		HVL044	
C1	0	22uF	CAP ALUM 22UF 50V 20% SMD	Radial, Can - SMD	EMVH500ADA220MF80G	United Chemi-Con
R2	0	0.0	RES 0.0 OHM 1/10W JUMP 0603 SMD	0603	CRCW06030000Z0EA	Vishay Dale
R3	0	1.87k	RES 1.87K OHM 1/10W 1% 0603 SMD	0603	CRCW06031K87FKEA	Vishay Dale
R4	0	8.2k	RES 8.2K OHM 1/10W 5% 0603 SMD	0603	CRCW06038K20JNEA	Vishay Dale

Title: TIDA-00278 TLC6C5912-Q1 BOM  
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**Automotive Cluster Telltale Driver Reference Design**

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
IC1	1		Automotive Power Logic 12-Bit Shift Register LED Driver	20PIN TSSOP (PW)	TLC6C5912QPWRQ1	Texas Instruments
D0, D3, D14, D17	4	Red	LED SUPER RED CLEAR 0805 SMD	0805	LTST-C170KRKT	LITE-ON
D1, D4, D13, D16	4	Yellow	LED YELLOW CLEAR 0805 SMD	0805	LTST-C170KSKT	LITE-ON
D2, D5, D12, D15	4	Green	LED GREEN CLEAR 0805 SMD	0805	LTST-C170KGKT	LITE-ON
CVBAT, CVCC	2	0.1uF	CAP CER 0.1UF 50V 5% X7R 0805	0805	08055C104JAT2A	AVX
R0, R1, R2, R3, R4, R5, R12, R13, R14, R15, R16, R17	12	430	RES 430 OHM 1/8W 5% 0805 SMD	0805	ERJ-6GEYJ431V	Panasonic Electronic Components
R8, R9	2	100k	RES 100K OHM 1/8W 5% 0805 SMD	0805	ERJ-6GEYJ104V	Panasonic Electronic Components
J0, J1, J2, J3, J4, J5, J12, J13, J14, J15, J16, J17, C_CLR, C_G, C_RCK, C_SERIN, C_SEROUT, C_SRCK, C_VCC, JVBAT, JVCC	21		JUMPER SMD 2.54MM		SL 11 SMD 062	Fischer Elektronik
	1		PCB			
R6, R7, R10, R11	0	0.0	RES 0.0 OHM 1/8W JUMP 0805 SMD	0805	CRCW08050000Z0EA	Vishay Dale

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