



**Test Vehicle Daisy Chain Components BOM**  
**Commercial Grade**  
 Rev 0.2

Source: **TopLine**  
 email: [info@topline.tv](mailto:info@topline.tv)  
[www.verdant-tv.com](http://www.verdant-tv.com)

**Commerical Grade**

Item	TopLine Part Nbr	I/O	Description	Pitch	Body Size	Est Height	Lead Frame Base Material	Lead Free Plating Alloy	Daisy Chain	Dummy Silicon Die	Mold Compound	Typical Package Qty	TopLine Dwg Ref#
1	TQFP32T30T-DE-D	32	TQFP	0.8mm	7mm	1.0mm	C7025	Sn100	Yes	Yes	EME-G700	Tray 250	162129
2	LQFP100T19.7T-DE-D	100	LQFP	0.5mm	14mm	1.4mm	C7025	Sn100	Yes	Yes	EME-G700	Tray 90	158799
3	QFN16M.5-T-DE-D	16	QFN	0.5mm	3mm	0.9mm	C194	Sn100	Yes	Yes	EME-G770	Tube 100	163566
4	QFN32M.5-T-DE-D	32	QFN	0.5mm	5mm	0.9mm	C194	Sn100	Yes	Yes	EME-G770	Tube 60	163587
5	QFN72T.5-F-DE-D	72	QFN	0.5mm	10mm	0.9mm	Cu	Sn100	Yes	Yes	EME-G770	Tray 184	163515
6	TSSOP8M25-TIN-DE-D	8	TSSOP	0.5mm	4.4 x 3mm	0.9mm	C7025	Sn100	Yes	Yes	EME-G600	Tube 102	158844
7	TSSOP24M25-T-DE-D	24	TSSOP	0.5mm	4.4 x 7.8mm	0.9mm	Cu	Sn100	Yes	Yes	EME-G600	Tube 62	160449
8	SSOP28M25-TIN-DE-D	28	SOIC	0.65mm	5.3x10.2mm	1.9mm	C194	Sn100	Yes	Yes	EME-G600	Tube 47	160668
9	TSOP48T19.7-T-DE-D	48	DRAM	0.5mm	12x20mm	1.0mm	C7025	Sn100	Yes	Yes	EME-G700	Tray 96	163347
10	TSOP48T19.7-T-DE-D-A	48	DRAM	0.5mm	12x20mm	1.0mm	A42	Sn100	Yes	Yes	KTMC5950GL	Tray 96	159228
11	LGA64T.8C-DC089D	64	LGA	0.8mm	8mm	0.8mm	BT/Cu	Ni-Au	Yes	Yes	EME-G770	Tray 319	163428
12	BGA64T.8C-DC089D	64	CSP	0.8mm	8mm	1.2mm	BT/Cu	SnAgCu	Yes	Yes	EME-G770	Tray 319	161196
13	BGA196T1.0C-D149AD	196	PBGA	1.0mm	15mm	1.76mm	BT/Cu	SnAgCu	Yes	Yes	EME-G770	Tray 126	158280
14	SOT23E7A-TIN-DC13D	3	SOT	1.9mm	1.3x2.9mm	1.0mm	A42	Sn100	Yes	Yes	EME-1100	Reel 3000	158706
15	D2PAKE13A-T-DC123D	3	Power Trans	5.08mm	10x9.2mm	4.5mm	Cu	Sn100	Yes	Yes		Reel 800	163401
16	SR0201P7A-ZERO-TIN	2	Resistor		0.6x0.3mm	0.23mm	Ni	Sn100	Yes	No		Reel 10000	157893
17	SR0402P7A-ZERO-TIN	2	Resistor		1.0x0.5mm	0.35mm	Ni	Sn100	Yes	No		Reel 10000	156498
18	SR0603P7A-ZERO-TIN	2	Resistor		1.6x0.8mm	0.45mm	Ni	Sn100	Yes	No		Reel 5000	156534
19	SR0805P7A-ZERO-TIN	2	Resistor		2.0x1.2mm	0.55mm	Ni	Sn100	Yes	No		Reel 5000	157176
20	SR1206P7A-ZERO-TIN	2	Resistor		3.2x1.6mm	0.55mm	Ni	Sn100	Yes	No		Reel 5000	157179
21	SRM1206E7-ZERO-TIN	2	MELF		3.2x1.6mm	1.6mm	Ni	Sn100	Yes	No		Reel 3000	118954
22	SC0201P7A-TIN	2	Cap		0.6x0.3mm	0.3mm	Ni	Sn100	No	No		Reel 15000	158850
23	SC0402P7A-TIN	2	Cap		1.0x0.5mm	0.5mm	Ni	Sn100	No	No		Reel 10000	161658
24	SC0603P7A-TIN	2	Cap		1.6x0.8mm	0.8mm	Ni	Sn100	No	No		Reel 4000	161670
25	SC0805P7A-TIN	2	Cap		2.0x1.2mm	0.8mm	Ni	Sn100	No	No		Reel 4000	161673
26	SC1206P7A-TIN	2	Cap		3.2x1.6mm	0.8mm	Ni	Sn100	No	No		Reel 4000	161676
27	DIP16M-TIN-DE-D	16	Throughhole	2.54mm	7.5x19mm	3.7mm	Cu	Sn100	Yes	Yes	6300H	Tube 25	159123



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**Mil-Aero Grade**  
 Rev 0.2

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**Mil-Aero Grade**

Item	TopLine Part Nbr	I/O	Description	Pitch	Body Size	Est Height	Lead Frame Base Material	Lead Free Plating Alloy	Daisy Chain	Dummy Silicon Die	Mold Compound	Typical Package Qty	TopLine Dwg Ref#
1	LCC68B50SQ.95-DE-D	68	LCCC	1.27mm	0.95"	2.2mm	Ceramic	Ni-Au	Yes	Yes	N/A	Tray 21	165381
2	CBGA1089T1.27-D339D	1089	CBGA	1.27mm	32.5mm	2.5mm	Ceramic	Sn10Pb90	Yes	Yes	N/A	Tray 12	164313
3	CCGA255T1.27-DC168	255	CCGA	1.27mm	21mm	2.5mm	Ceramic	Sn10Pb90	Yes	Optional	N/A	Tray 44	157896
4	FP28F50R.40X.72B-DE	28	Flat Pack	1.27mm	.40"x.72"	2.0mm	Ceramic	Ni-Au	Yes	Optional	N/A	Tray	299785
5	CERQUAD132F25DE.87	132	CERQUAD	0.635mm	0.87" Sq	2.0mm	Ceramic	Ni-Au	Yes	Optional	N/A	Tray	159282
6	CQFP144G25-3.6-DE	144	CERQUAD	0.65mm	28mm Sq	2.0mm	Ceramic	Ni-Au	Yes	Optional	N/A	Tray	156468



**Test Points, Test Coupons, Vias**  
Rev 0.2

Item	TopLine Part Nbr	I/O	Description	Pitch	Body Size	Est Height	Lead Frame Base Material	Lead Free Plating Alloy	Daisy Chain	Silicon Die		Typical Package Qty
1	Various size Vias						Cu		Yes	NA		NA
2	Chains of same size Vias						Cu		Yes	NA		NA
3	Decreasing Line Spacing						Cu		Yes	NA		NA
4	Decreasing Line Width						Cu		Yes	NA		NA
5	SIR Test						Cu		NA	NA		NA
6	Ground Plane to check Impedance						Cu		NA	NA		NA
7	Wire Attach Points						Cu		Yes	NA		NA



# **Test Vehicle Bill of Materials**

**Daisy Chain  
Commercial  
Grade**

**Daisy Chain  
Mil/Aero Grade**

**Also Available**

Available from:

**TopLine<sup>®</sup>**

**Tel: (800) 776-9888  
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