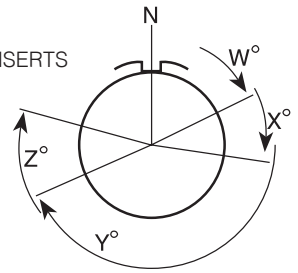
LAYOUTS BY SHELL SIZE

MATING-FACE VIEW OF PIN INSERTS



ALTERNATE INSERT POSITION (ROTATION)

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES							DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0	🌡	W	X	Y	Z	
8S-1	✦	✚			▼	1		1						-	-	-	-	A
10S-2		✚^			▼	1		1						-	-	-	-	A
10SL-3	✦★	✚★	●★	■	▼	3		3						-	-	-	-	A
10SL-4	✦★	✚^★	●	■	▼	2		2						63#	-	-	-	A
10SL-51		❖★	●		▽	2		2					🌡	10SL-4 45° A=Ir.; B=Con.				
10SL-52		❖★	●		▽	2		2					🌡	10SL-4 45° A=Cu; B=Con.				
10SL-53		❖★	●		▽	2		2					🌡	10SL-4 45° A=Al.; B=Ch.				
10SL-54		❖★	●		▽	3		3					🌡	10SL-3 A=Ir.; B=Con.; C=Cu				
10SL-55		❖★	●		▽	3		3					🌡	10SL-3 A=Al.; B=Ch.; C=Cu				
10SL-56		❖★	●		▽	2		2					🌡	10SL-4 A=Al.; B=Ch.				
10SL-57		❖★	●		▽	2		2					🌡	10SL-4 A=Ch.; B=Con.				
10SL-58		❖★	●		▽	3		3					🌡	10SL-3 A=Ch.; B=Al.; C=Cu				
10SL-59		❖★	●		▽	2		2					🌡	10SL-4 A=Ch.; B=Al.				
10SL-60		❖★	●		▽	2		2					🌡	10SL-4 A=Ir.; B=Con.				
10SL-61		❖★	●		▽	2		2					🌡	10SL-4 A=Cu; B=Con.				
10SL-62		❖★	●		▽	3		3					🌡	10SL-3 A=Cu; B=Al.; C=Ir.				
10SL-63		❖★	●		▽	3		3					🌡	10SL-3 A, C=Con.; B=Ch.				
10SL-64		❖★	●		▽	3		3					🌡	10SL-3 A, C=Ch.; B=Al.				
12S-1		❖			▽	2		2						12S-3 100°				A
12S-2	✦	❖			▽	2		2						12S-3 250°				A
12S-3	✦	✚			▼	2		2						70	145	215	290	A
12S-4		✚			▼	1		1						-	-	-	-	D
12S-6	✦					2		2					🌡	12S-3 A=Con.; B=Ir.				
12S-51		❖			▽	2		2					🌡	12S-3 315° A=Ch.; B=Al.				
12S-54		❖			▽	2		2					🌡	12S-3 315° A = Ir.; B=Con.				
12S-55		❖			▽	2		2					🌡	12S-3 45° A=Cu; B=Con.				
12S-56		❖			▽	2		2					🌡	12S-3 A=Al.; B=Ch.				
12S-57		❖			▽	2		2					🌡	12S-3 60° A=Ch.; B=Al.				
12S-58		❖			▽	2		2					🌡	12S-3 120° A=Ir.; B=Con.				
12S-59		❖			▽	2		2					🌡	12S-3 A=Ir.; B=Con.				
12S-60		❖			▽	2		2					🌡	12S-3 A=Cu; B=Con.				
12S-61		❖			▽	2		2					🌡	12S-3 A=Ch.; B=Con.				
12S-62		❖			▽	2		2					🌡	12S-3 A=Ch.; B=Al.				
12SL844	✦					4		4						-	-	-	-	I
12-5	✦	✚			▼	1			1					-	-	-	-	D
14S-1	✦	✚	●		▼	3		3						-	-	-	-	A
14S-2	✦	✚	●		▼	4		4						-	120	240	-	I
14S-4	✦	✚^	●			1		1						-	-	-		D
14S-5	✦	✚	●		▼	5		5						-	110	-	-	I

★Pins in receptacle, sockets in plug only ^ 5015 QPL not all configurations #Rotation commercial only, not MS-approved

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES							DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0	🌡	W	X	Y	Z	
14S-6	✦	✚	●	■	▼	6		6						90#	-	-	-	I
14S-7	✦	✚	●		▼	3		3						90	180	270	-	A
14S-9	✦	✚	●		▼	2		2						70	145	215	290	A
14S-10	✦	❖	●		▽	4		4						14S-2 100°				I
14S-11	✦	❖	●		▽	4		4						14S-2 250°				I
14S-12	✦	❖	●		▽	3		3						14S-1 100°				A
14S-13	✦	❖	●		▽	3		3						14S-1 260°				A
14S-14	✦	❖	●			4		4						14S-2 100°				I
14S-51		❖	●		▽	2		2					🌡	14S-9 90° A=Al.; B=Ch.				
14S-52		❖	●		▽	4		4					🌡	14S-2 45° A, B=Cu; C=Al.; D=Ch.				
14S-53		❖	●		▽	2		2					🌡	14S-9 90° A=Ir.; B=Con.				
14S-54		❖	●		▽	6		6					🌡	14S-6 45° A, C, E=Ir.; B, D, F=Con.				
14S-55		❖	●		▽	4		4					🌡	14S-2 45° A, C=Ir.; B, D=Con.				
14S-56		❖	●		▽	4		4					🌡	14S-2 45° A=Ir.; B=Con.; C, D=Cu				
14S-57		❖	●		▽	4		4					🌡	14S-2 45° A, C=Al.; B, D=Ch.				
14S-58		❖	●		▽	3		3					🌡	14S-7 45° A=Al.; B=Ch.; C=Cu				
14S-59		❖	●		▽	2		2					🌡	14S-9 90° A=Cu; B=Con.				
14S-60		❖	●		▽	2		2					🌡	14S-9 A=Al.; B=Ch.				
14S-61		❖	●		▽	6		6					🌡	14S-6 45° A=Al.; B=Ch.; C=Ir.; D=Con.; E, F=Cu				
14S-63		❖	●		▽	6		6					🌡	14S-6 A, C= Al.; B, D=Ch.; E=Ir.; F=Con.				
14S-64		❖	●		▽	4		4					🌡	14S-2 A, C=Con.; B, D=Cu				
14S-65		❖	●		▽	6		6					🌡	14S-6 A, C, E= Cu; B, D, F=Con.				
14S-67		❖	●		▽	6		6					🌡	14S-6 A=Al.; B=Ch.; Balance=Cu				
14S-68		❖	●		▽	4		4					🌡	14S-2 45° A=Ch.; B=Con.; C, D=Cu				
14S-69		❖	●		▽	3		3					🌡	14S-7 A=Con.; B=Ch.; C=Cu				
14S-70		❖	●		▽	4		4					🌡	14S-2 A, D=Ch.; B, C=Al.				
14S-71		❖	●		▽	4		4					🌡	14S-2 A, B, D=Cu; C=Con.				
14S-72		❖	●		▽	2		2					🌡	14S-9 A=Con.; B=Cu				
14S-73		❖	●		▽	4		4					🌡	14S-2 A, B=Cu; C=Al.; D=Ch.				
14S-74		❖	●		▽	4		4					🌡	14S-2 A, B=Ch.; C, D=Al.				
14S-75		❖	●		▽	4		4					🌡	14S-2 A, B=Cu; C, D=Con.				
14S-76		❖	●		▽	4		4					🌡	14S-2 A, C=Al.; B, D=Ch.				
14S-77		❖	●		▽	4		4					🌡	14S-2 A, D=Al.; B, C=Ch.				
14S-78		❖	●		▽	2		2					🌡	14S-9 A=Ch.; B=Al.				
14SA7		❖	●			7		7						-	-	-	-	A
14-3		✚			▼	1				1				-	-	-	-	A
16S-1	✦	✚	●	■	▼	7		7						80	-	-	280	A
16S-3		✚			▽	1		1						-	-	-	-	B
16S-4	✦	✚	●	■	▽	2		2						35	110	250	325	D
16S-5	✦	✚	●			3		3						70	145	215	290	A
16S-6	✦	✚	●			3		3						90	180	270	-	A
16S-8	✦	✚	●		▼	5		5						-	170	265	-	A
16S-14	✦	❖	●			3		3						16S-5 110°				A
16S-15	✦	❖	●			2		2						16S-4 100°				D
16S-16	✦	❖	●			2		2						16S-4 250°				D
16S-17	✦	❖	●			3		3						16S-5 250°				A
16S-52		❖	●		▽	2		2					🌡	16S-4 A=Ch.; B= Al.				
16S-54		❖	●		▽	7		7					🌡	16S-1 A=Al.; B=C; Balance=Cu				

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S. #Rotation commercial only. Not MS-approved. Not used for 97 series.

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES							DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0	🌡	W	X	Y	Z	
16S-55		❖	●		▽	7		7					🌡	16S-1	A=Con.; Balance=Cu			
16A11				■		2			2					35	110	250	125	A
16SA18	✦	❖	●			7		7						16S-1	100°			A
16SA19	✦	❖	●			7		7						16S-1	260°			A
16SA20	✦	❖	●			7		7						16S-1	110°			A
16SA21	✦	❖	●			7		7						16S-1	250°			A
16-2		✚	●		▽	1			1					-	-	-	-	E
16-7	✦	✚	●	■	▽	3		2		1				80	110	250	280	A
16-9	✦	✚	●		▼	4		2	2					35	110	250	325	A
16-10	✦	✚	●	■	▼	3			3					90	180	270	-	A
16-11	✦	✚	●		▼	2			2					35	110	250	325	A
16-12	✦	✚	●	■	▼	1					1			-	--	-		A
16-13	✦	✚	●		▼	2			2				🌡	35	110	250	325	A = Ir.; B = Con.
16-52		❖	●		▽	2			2				🌡	16-11	90° A=Al.; B=Ch.			
16-53		❖	●		▽	4		2	2				🌡	16-9	70° A=Al.; C=Ch.; B, D=Cu			
16-55		❖	●		▽	3			3				🌡	16-10	45° A=Al.; B=Ch.; C=Cu			
16-56		❖	●		▽	2			2				🌡	16-13	90° A=Con.; B=Cu			
16-57		❖	●		▽	3			3				🌡	16-10	A=Al.; B=Cu; C=Ch.			
16-58		❖	●		▽	3			3				🌡	16-10	A=Con.; B, C=Cu			
16-59		❖	●			4			4					80	-	-	280	A
16-60		❖	●		▽	2			2				🌡	16-13	A=Al.; B=Ch.			
16-62		❖	●		▽	2			2				🌡	16-11	A=Con.; B=Cu			
18A31	✦	❖	●			10		10						18-1	110°			A (B,C,F,G) I *(all others)*
18-1	✦	✚	●	■	▼	10		10						70	145	215	290	A (B,C,F,G) I *(all others)*
18-3	✦	✚	●			2			2					35	110	250	325	D
18-4	✦	✚	●		▼	4		4						35	110	250	325	D
18-5	✦	✚	●		▼**	3		1	2					80	110	250	280	D
18-6		✚	●		▼**	1					1			-	-	-	-	D
18-7		✚ ^	●		▽	1				1				-	-	-	-	B
18-8	✦	✚	●		▼	8		7	1					70	-	-	290	A
18-9	✦	✚	●	■	▼	7		5	2					80	110	250	280	I
18-10	✦	✚	●		▼	4			4					-	120	240	-	A
18-11	✦	✚	●	■	▼	5			5					-	170	265	-	A
18-12	✦	✚	●		▼	6		6						80	-	-	280	A
18-13	✦	✚	●	■	▼	4			3	1				80	110	250	280	A
18-14		✚ ^			▽	2		1			1			80	110	250	280	A
18-15	✦†	✚	●		▼***	4			4				🌡	-	120	240	-	A, C=Ir. B, D=Con.
18-16	✦	✚ ^	●		▽	1			1					-	-	-	-	C
18-17	✦	❖	●		▽	7		5	2					18-9	100°			I
18-18	✦	❖	●		▽	7		5	2					18-9	250°			I
18-19	✦	❖	●		▽	10		10						80	120	240	-	A
18-20	✦	✚ ^	●			5		5						90	180	270	-	A
18-22	✦	✚ ^	●		▼	3		3						70	145	215	290	D
18-23	✦	❖	●		▽	10		10						18-1	100°			A (B,C,F,G) I *(all others)*
18-24	✦	❖	●		▽	10		10						18-1	250°			A (B,C,F,G) I *(all others)*
18-25	✦	❖	●			2			2					18-3	100°			D
18-26	✦	❖	●			2			2					18-3	250°			D

† Socket only for 97 Series ^ 5015 QPL not all configurations **Socket only for MS3450 series ***Pin only for MS3450

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES 20	16	12	8	4	0	🌡	DEGREES OF ROTATION W	X	Y	Z	SERVICE RATING
18-27	✦	❖	●		▽**	3		1	2					18-5 100°				D
18-28	✦	❖	●		▽**	3		1	2					18-5 250°				D
18-29	✦	✚^	●			5		5						90	180	270	-	A
18-30	✦	❖	●			5		5						18-20 110°				A
18-31	✦	❖	●			5		5						18-20 260°				A
18-420	✦					1 HV			1 HV					24 KVdc, 17 KVac				
18-51		❖	●		▽	6		6					🌡	18-12 A=Ir.; B, E=Con.; D=Cu; C, F=Dummy				
18-52		❖	●		▽	5			5				🌡	18-11 A=Ir.; B=Con.; C=Ch.; D=Al.; E=Dummy				
18-53		❖	●		▽	6		6					🌡	18-12 A, D=Ir.; B, E=Con.; C, F=Dummy				
18-54		❖	●		▽	4			4				🌡	18-15 A, C=Al.; B, D=Ch.				
18-56		❖	●		▽	10		10					🌡	18-1 45° A, C, E, G, I=Ir.; B, D, F, H, J=Con.				
18-57		❖	●		▽	6		6					🌡	18-12 45° A, C, E=Al.; B, D, F=Ch.				
18-59		❖	●		▽	6		6					🌡	18-12 45° A, C=Ir.; B, E, F=Con.; D=Cu				
18-60		❖	●		▽	5			5				🌡	18-11 45° A, D=Al.; B, C,=Ch.; E=Cu				
18-61		❖	●		▽	6		6					🌡	18-12 A, C=Ir.; B, D=Con.; E=Ch.; F=Al.				
18-62		❖	●		▽	6		6					🌡	18-12 A, B, C=Ir.; D, E, F=Con.				
18-63		❖	●		▽	4			4				🌡	18-15 A, C=Con.; B, D=Cu				
18-65		❖	●		▽	6		6					🌡	18-12 A=Ir.; B=Con.; Balance=Cu				
18-66		❖	●		▽	10		10					🌡	18-1 A, C, E, G, I=Cu; B, D, F, H, J=Con.				
18-67		❖	●		▽	6		6					🌡	18-12 A, C, E=Cu; B, D, F=Con.				
18-68		❖	●		▽	5			5				🌡	18-11 A, D=Al.; B, C=Ch.; E=Cu				
18-69		❖	●		▽	10		10					🌡	18-1 A=Al.; B=Ch.; Balance=Cu				
18-70		❖	●		▽	5			5				🌡	18-11 A=Ir.; B=Con.; C=Ch.; D=Al.; E=Cu				
18-71		❖	●		▽	4			4				🌡	18-15 A=Con.; Balance=Cu				
18-72		❖	●		▽	4			4				🌡	18-15 D=Con.; Balance=Cu				
18-73		❖	●		▽	7		5	2				🌡	18-9 A=Al.; D=Ch.; Balance=Cu				
18-74		❖	●		▽	6		6					🌡	18-12 A=Ch.; B=Al.; D=Ir.; E=Cu; C, F=Con.				
20A9				■		9			9					-	110	250	-	D(J), I(all others)
20A16	✦	❖	●			13		13						20-11 182°				I
20A37	✦	❖	●			4			4					20-4 250°				D
20A48				■		19		19						80	280	-	-	I
20-2		❖	●	■	▼	1						1		-	-	-	-	D
20-3	✦	✚^	●			3			3					70	145	215	290	D
20-4	✦	✚	●		▼	4			4					45	110	250	-	D
20-6	✦	✚^	●			3		3						70	145	215	290	D
20-7	✦	✚	●		▼	8		8						80	110	250	280	A(B,C.F,G) I*(all others)*
20-8	✦	✚	●	■	▼	6		4		2				80	110	250	280	I
20-9		✚			▽	8		7	1					80	110	250	280	D(H), A*(all others)*
20-11	✦	✚	●			13		13						-	-	-	-	I
20-12		✚^				2		1			1			80	110	250	280	A
20-14	✦	✚	●		▼	5			3	2				80	110	250	280	A
20-15	✦	✚	●		▼	7			7					80	-	-	280	A
20-16	✦	✚	●		▼	9		7	2					80	110	250	280	A
20-17	✦	✚^	●		▼	6		1	5					90	180	270	-	A
20-18	✦	✚	●		▼	9		6	3					35	110	250	325	A
20-19	✦	✚	●		▼	3				3				90	180	270	-	A
20-20		✚^	●			4			3		1			80	110	250	280	A
20-21	✦	✚	●		▼	9		8	1					35	110	250	325	A

** Socket only for MS3450 series ^ 5015 QPL not all configurations

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						🌡	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
20-22		✚	●		▼	6		3		3				80	110	250	280	A
20-23	✦	✚	●			2				2				35	110	250	325	A
20-24	✦	✚	●		▼	4		2		2				35	110	250	325	A
20-25	✦	❖	●			13		13						20-11	100°			I
20-26		❖	●			19		19						-	90	280	-	A
20-27	✦	✚	●		▼	14		14						35	110	250	325	A
20-29	✦	✚	●		▼	17		17						80	-	-	280	A
20-30	✦	❖	●			13		13						20-11	250°			I
20-32	✦	❖	●		▽	8		8						20-7	260°			A(B,C,F,G) I*(all others)*
20-33	✦	✚	●		▼	11		11						-	-	-	280#	A
20-51		❖	●			3				3				-	-	-	-	A
20-52		❖	●		▽	4			4				🌡	20-4	315°	A=Ir.; B=Con.; C=Ch.; D=Al.		
20-56		❖	●		▽	8		8					🌡	20-7	45°	A, B, G, H=Ir.; C, D, E, F=Con.		
20-57		❖	●			7‡			7‡					-	-	-	-	A
20-58		❖	●			10		5	5					-	-	-	-	A
20-59		❖	●			3‡				3‡				-	-	-	-	A
20-60		❖	●		▽	8		8					🌡	20-7	45°	D=Ch.; E=Al.; Balance=Cu		
20-61		❖	●		▽	17		17					🌡	20-29	45°	A, B, M=Cu; Balance=Con.		
20-62		❖	●		▽	7			7				🌡	20-15	80°	A, C, E=Al.; B, D, F=Ch.; G=Cu		
20-64		❖	●		▽	14		14					🌡	20-27		A=Al.; C=Ch.; Balance=Cu		
20-65		❖	●		▽	14		14					🌡	20-27		A, B, C, D, E, F, G=Ir.; H, I, J, K, L, M, N=Con.		
20-66		❖	●			6‡		1	5‡					-	-	-	-	A
20-67		❖	●		▽	9		7	2				🌡	20-16		H=Al.; I=Ch.; Balance=Cu		
20-68		❖	●		▽	8		8					🌡	20-7		A, B, G, H=Con.; C, D, E, F=Cu		
20-69		❖	●		▽	14		14					🌡	20-27		A, B, C, D, E, F, G=Cu; H, I, J, K, L, M, N=Con.		
20-70		❖	●		▽	17		17					🌡	20-29		A, C, E, G, J, L, N, R, T=Ir.; B, D, F, H, K, M, P, S=Con.		
20-71		❖	●		▽	17		17					🌡	20-29		S=Al.; R=Ch.; Balance=Cu		
20-74		❖	●		▽	17		17					🌡	20-29		A, C, E, G, J, L, N, R=Ir.; B, D, F, H, K, M, P, S=Con.;T=Cu		
20-75		❖	●		▽	7			7				🌡	20-15		G=Al.; Balance=Ch.		
20-77		❖	●		▽	9		7	2				🌡	20-16		A=Con.; Balance=Cu		
20-79		❖	●			8‡		7	1‡					-	-	-	-	D(H); A *(all others)*
20-80		❖	●		▽	14		14					🌡	20-27		A, C, E, G, I, K, M=Cu; B, D, F, H, J, L, N=Con.		
20-81		❖	●		▽	14		14					🌡	20-27		A, C, E, G, I, K, M=Ch.; B, D, F, H, J, L, N=Al.		
20-82		❖	●		▽	17		17					🌡	20-29		A, C, E, G, J, L, N, R=Al.; B, D, F, H, K, M, P, S=Ch.; T=Cu		
22B22				■		4				4				-	110	250	-	A
22-1	✦	✚	●			2				2				35	110	250	325	D
22-2	✦	✚	●	■	▼	3				3				70	145	215	290	D
22-4	✦	✚	●		▼**	4			2	2				35	110	250	325	A
22-5	✦	✚	●		▼**	6		4	2					35	110	250	325	D
22-6		✚	●		▼**	3		1		2				80	110	250	280	D
22-7		✚	●		▼***	1						1		-	-	-	-	E
22-8	✦	✚^	●			2			2					35	110	250	325	E
22-9	✦	✚	●		▽	3			3					70	145	215	290	E
22-10	✦	✚	●		▽	4		4						35	110	250	325	E
22-11	✦	✚	●		▽	2		2						35	110	250	325	B
22-12	✦	✚^	●	■		5		3		2				80	110	250	280	D
22-13	✦	✚^	●			5		1	4					35	110	250	325	A(A-D) D(E)

#Rotation commercial only, not MS-approved ‡ Reduced contact crimp pot ^ 5015 QPL not all configurations
** Socket only for MS3450 series ***Pin only for MS3450 series

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						🌡	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
22-14	✦	✚	●	■	▼	19		19						80	110	250	280	A
22-15	✦	✚	●		▽	6		1	5					80	110	250	280	A(A-C, E, F) E(D)
22-16	✦	✚	●			9		6	3					80	110	250	280	A
22-17		✚^	●		▽	9		8	1					80	110	250	280	D(A) A*(all others)*
22-18	✦	✚	●		▽	8		8						80	110	250	280	A(C-E) D*(all others)*
22-19	✦	✚	●		▼	14		14						80	110	250	280	A
22-20	✦	✚^	●			9		9						35	110	250	325	A
22-21		✚^	●		▼	3		2				1		80	110	250	280	A
22-22	✦	✚	●	■	▼	4				4				-	110	250	-	A
22-23	✦	✚	●		▼	8			8					35	-	250	-	D(A-D): A(E-G)
22-24		✚	●			6		4	2					80	110	250	280	D(C, D, E) A(A, B, F)
22-26	✦					7		5	2					-	-	-	-	1/8" spacing
22-27	✦	✚	●	■	▽	9		8		1				80	-	250	280	D(J) A*(all others)*
22-28	✦	✚^	●			7			7					80	-	-	280	A
22-30	✦	❖	●		▽	19		19						22-14	100°			A
22-31	✦	❖	●			2		2						22-11	100°			B
22-32	✦	❖	●		▽	6		4	2					22-5	260°			D
22-33		✚^	●			7		7						80	110	250	280	D(A-D) A(E-G)
22-34	✦	✚				5		2	3					80	110	250	280	D
22-36					▽	8			8					90	-	270	-	D(H); A*(all others)*
22-57		❖	●		▽	19		19					🌡	22-14	45°	A, C, E, G, J, L, N, R=Ir.; B, D, F, H, K, M, P, S=Con.; T, U, V=Cu			
22-60		❖	●		▽	19		19					🌡	22-14	45°	U=Al.; N=Ch.; Balance=Cu		
22-62		❖	●		▽	8			8				🌡	22-23	60°	A, B, F, G=Al.; C, D, E, H=Ch.		
22-63		❖	●			12		8	4					20	-	-	-	A
22-65		❖	●			8‡			8‡						-	-	-	-	D(H); A*(all others)*
22-68		❖	●		▽	14		14					🌡	22-19	45°	A, C, E, G, J, L, M=Ir.; B, D, F, H, K, P, N=Con.		
22-69		❖	●		▽	14		14					🌡	22-19	45°	A, C, E, G, J, L, M=Cu; B, D, F, H, K, P, N=Con.		
22-70		❖	●			13		5	8					-	-	-	-	A
22-71		❖	●		▽	19		19					🌡	22-14	V=Al.; U=Ch.; Balance=Cu			
22-72		❖	●		▽	6		4	2				🌡	22-5	B=Al.; E=Ch.; Balance=Cu			
22-73		❖	●		▽	6		4	2				🌡	22-5	E=Al.; B=Ch.; Balance=Cu			
22-74		❖	●		▽	8			8				🌡	22-23	A, C, E, G=Ir.; B, D, F, H=Con.			
22-75		❖	●		▽	8			8				🌡	22-23	A=Al.; B, D, G, H=Cu; C=Ch.; E=Ir.; F=Con.			
22-76		❖	●			21		21					🌡		W=Con.; Balance=Cu			
22-77		❖	●		▽	14		14					🌡	22-19	B, D, F, H, J, K, M, P=Cu; A, E, L=Ir.; C, G, N=Con.			
22-78		❖	●		▽	19		19					🌡	22-14	A, C, E, G, H, K, M, P, R, T=Con.; Balance=Cu			
22-79		❖	●		▽	4		4					🌡	22-10	A, C,=Con.; B, D=Cu			
22-80		❖	●			3‡				3‡				-	-	-	-	A
24A35		❖	●			16		14	2					24-7	100°			A
24-2	✦	✚	●		▼	7			7					80	-	-	280	D
24-3		✚^	●			7		5	2					80	110	250	280	D
24-4					▽	4		3				1		80	110	250	280	D
24-5	✦	✚	●		▼	16		16						80	110	250	280	A
24-6	✦	✚^	●		▽	8			8					80	110	250	280	D(A,G,H) A*(all others)*
24-7	✦	✚	●		▼	16		14	2					80	110	250	280	A

^ 5015 QPL not all configurations

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES							DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0	🌡	W	X	Y	Z	
24-9	✦	✚	●	■		2					2			35	110	250	325	A
24-10	✦	✚	●	■	▼	7				7				80	-	-	280	A
24-11	✦	✚	●	■	▼	9			6	3				35	110	250	325	A
24-12	✦	✚	●	■	▼	5			3		2			80	110	250	280	A
24-15		❖	●		▽	16		16						24-5 100°				A
24-16	✦	✚^	●		▽	7		3	3	1				80	110	250	280	D(A,B,F,G) A(C,D,E)
24-17		✚^	●			5		3	2					80	110	250	280	D
24-19	✦	❖	●			12		12						-	-	-	-	A
24-20	✦	✚	●		▼	11		9	2					80	110	250	280	D
24-21	✦	✚	●		▽	10		9		1				80	110	250	280	D
24-22	✦	✚	●		▼	4				4				45	110	250	-	D
24-24					▽	16		16						24-5 250°				A
24-25	✦	❖	●			8			8					24-6 100°				D(A, G, H) A *(all others)*
24-26	✦	❖	●			8			8					24-6 250°				D(A, G, H) A *(all others)*
24-27	✦	✚	●		▽	7		7						80	-	-	280	E
24-28	✦	✚	●	■	▼	24		24						80	110	250	280	I
24-51		❖	●			5				5				-	108	-	-	A
24-52		❖	●			1 HV			1HV					30 KVdc, 21 KVac				
24-53		❖	●			5‡				5‡				-	108	-	-	A
24-56		❖	●		▽	11		9	2				🌡	24-20 45° E=Al.; F=Ch.; Balance=Cu				
24-57		❖	●		▽	24		24					🌡	24-28 45° A, C, J, V, Y, W, K, E, H, U, S, M=Ch.; Balance=Al.				
24-58		❖	●			13		7	3	3				-	-	-	-	A
24-59		❖	●			14		7	7					-	-	-	-	A
24-60		❖	●			7‡				7‡				-	-	-	-	A
24-62		❖	●		▽	24		24					🌡	24-28 A, C, E, G=Ir.; B, D, F, H=Con.; R, T=Ch.; S, U=Al.; Balance=Cu				
24-63		❖	●		▽	24		24					🌡	24-28 A, C, E, G, J, L, K, N, S, U, W, Y=Cu; B, D, F, H, Q, R, M, P, T, V, X, Z=Con.				
24-64		❖	●		▽	16		16					🌡	24-5 A, B, C, D, E, F, G, H=Ir.; J, K, L, M, N, P, R, S=Con.				
24-65		❖	●			15		4	11					-	-	-	-	A
24-66		❖	●			7			7					-	-	-	-	D
24-67		❖	●			19			19					16	-	-	-	I
24-68		❖	●		▽	24		24					🌡	24-28 D=Con.; Balance=Cu				
24-71		❖	●			7‡				7‡				-	-	-	-	A
24-75		❖	●			7‡				7‡				-	-	-	-	A
24-79		❖	●			5				5				-	108	-	-	A
24-80		❖	●		▽	23		23						35	145	240	300	I
24-81		❖	●			16		14	2				🌡	24-7 A, C, E, G, I, K, M, N, P=Cu; B, D, F, H, J, L, O=Con.				
24-84		❖	●			19			19 (18)					-	-	-	-	A/Coax
24-96		❖	●			28		28						65	-	-	-	I
24-AJ		❖	●			25		25						80	110	250	280	A
28A63				■		28		19	9					-	110	260	-	A
28-1	✦	✚	●		▼	9			6	3				80	110	250	280	D(A, E, J) A *(all others)*
28-2	✦	✚	●		▼	14		12	2					35	110	250	325	D
28-3	✦	✚	●		▽	3				3				70	145	215	290	E
28-4		✚^	●		▽	9		7	2					80	110	250	280	E(G, P, S) D *(all others)*
28-5		✚^	●		▽	5		2	1		2			35	110	250	325	D
28-6	✦	✚^	●			3					3			70	145	215	290	D
28-7		❖	●			2					2			35	110	250	325	D

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations ( ) Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						🌡	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
28-8	✦	✚^	●		▽	12		10	2					80	110	250	280	E (L, M) D(B) A *(all others)*
28-9	✦	✚	●		▼	12		6	6					80	110	250	280	D
28-10	✦	✚	●		▼	7			3	2	2			80	110	250	280	D(G) A(all others)
28-11	✦	✚	●	■	▼	22		18	4					80	110	250	280	A
28-12	✦	✚	●		▼	26		26						90	180	270	-	A
28-13	✦	❖	●		▽	26		26						28-12 100°				A
28-15	✦	✚	●		▼	35		35						80	110	250	280	A
28-16	✦	✚	●		▽	20		20						80	110	250	280	A
28-17	✦	✚	●		▼	15		15						80	110	250	280	A(A-L) B(R) D(M-P)
28-18	✦	✚	●		▽	12		12						70	145	215	290	C(M) D(G, H, J, K, L) A(A, B) I(C, D, E, F)
28-19	✦	✚	●		▽	10		6	4					80	110	250	280	A(C, E, G, J, K, L) B(H, M) D(A, B)
28-20	✦	✚^	●	■	▼	14		4	10					80	110	250	280	A
28-21	✦	✚	●	■	▼	37		37						80	110	250	280	A
28-22		✚^	●	■	▼	6		3			3			70	145	215	290	D
28-51		❖	●			12			12					80	135	195	-	A
28-53		❖	●		▽	22		18	4				🌡	28-11 45° J, L=Al.; K, M=Ch.; Balance=Cu				
28-58		❖	●		▽	14		4	10				🌡	28-20 45° A, C, E, G, K, M=Al.; B, D, F, H, L, N=Ch.; J, P=Cu				
28-59		❖	●			17		10	7					-	-	-	-	A
28-61		❖	●		▽	37		37					🌡	28-21 45° A, C, J, Z, m, r, n, a, K, F, H, X, k, h, T, M, N, d=Ir.; Balance=Con.				
28-63		❖	●		▽	14		4	10				🌡	28-20 45° A, C, E, G, J=Al.; B, D, F, H, P=Ch.; Balance=Cu				
28-64		❖	●		▽	35		35					🌡	28-15 A, d=Al.; B, j=Ch.; C, D, E, F, G, N, P, R, S, H, J, K, L, M, W, X, Y, Z=Con.;Balance=Cu				
28-65		❖	●		▽	26		26					🌡	28-12 A, C, E, G, J, L, N, R, T, V=Ir.; X, Z=Al.; B, D, F, H, K, M, P, S, U, W=Con.;Y, a=Ch.; b, d=Cu				
28-66		❖	●			16			14	2				50	100	165	-	A
28-67		❖	●		▽	20		20					🌡	28-16 U=Con.; Balance=Cu				
28-68		❖	●		▽	35		35					🌡	28-15 45° T=Al.; U=Ch.; Balance=Cu				
28-69		❖	●		▽	22		18	4				🌡	28-11 G=Al.; R=Ch.; Balance=Cu				
28-70		❖	●		▽	22		18	4				🌡	28-11 A=Al.; B=Ch.; Balance=Cu				
28-72		❖	●			3					3(3)			-	-	-	-	Coax
28-74		❖	●			16‡		9		7‡				70	133	227	290	A
28-75		❖	●			16‡		9		7‡				70	133	227	290	A
28-79		❖	●			16		9		7				70	133	227	290	A
28-82		❖	●			6			4	2				-	-	-	-	D
28-84		❖	●			9				9				45	157	90	135	A
28-77		❖	●		▽	22		18	4				🌡	28-11 J=Con.; Balance=Cu				
28-81		❖	●		▽	37		37					🌡	28-21 A, D, S, Z, n, s=Ir.; B, J, K, f, g, r=Con.; G, L, P, b, e, j=Al.; F, H, T, X, h, k=Ch.; Balance=Cu				
28-AY		❖	●			9		5			4			80	110	250	280	A
32A29		❖	●			23		16	2	3	2			32-6 250°				A
32A30		❖	●			5			3			2		32-1 100°				E(A) D *(all others)*
32A69				■		61	41	20						-	110	250	-	I
32-1		✚		■	▼	5			3			2		80	110	250	280	E(A) D *(all others)*
32-2		✚	●		▽	5		2			3			70	145	215	290	E

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations ( ) Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						🌡	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
32-3		✚	●	■	▽	9		4	2		2	1		80	110	250	280	D
32-4		✚^	●			14		12	2					80	110	250	280	A (F, J, K, N) D (*all others*)
32-5	✦	✚	●			2						2		35	110	250	325	D
32-6	✦	✚	●	■	▼	23		16	2	3	2			80	110	250	280	A
32-7	✦	✚	●	■	▼	35		28	7					80	125	235	280	I (A, B, H, J) A (*all others*)
32-8	✦	✚	●			30		24	6					80	125	235	280	A
32-9		✚^	●		▼	14		12			2			80	110	250	280	D
32-10		✚^	●			7		3		2	2			80	110	250	280	E (A, F) B (G) D(E) A(D)
32-12		✚^	●			15		10	5					80	110	250	280	A (C, D, E, F, G) D(*all others*)
32-13	✦	✚	●		▼	23		18	5					80	110	250	280	D
32-14		❖				13			13					65	130	230	295	D
32-15		✚^	●		▼	8			6			2		35	110	250	280	D
32-16		❖	●		▽	23		16	2	3	2			32-6	100°			A
32-17	✦	✚	●		▼	4					4			45	110	250	-	D
32-19		❖	●		▽	5			3			2		32-1	260°			E(A) D(*all others*)
32-20		❖	●		▽	23		16	2	3	2			32-6	260°			A
32-22		❖	●		▽	54		54						80	110	250	280	A
32-25		❖	●			25			25					60	125	-	-	A
32-31		❖	●			31		31						80	125	215	280	A
32-48		❖	●			48		48						80	-	-	-	I
32-51		❖	●			30		24	6				🌡	32-8	90°M=Ch.; N= Al.; Balance=Cu			
32-52		❖	●			8			6			2		32-15	90°			D
32-53		❖	●			42		37	5					-	-	-	-	I/E
32-55		❖	●			30		24	6				🌡	32-8	125°M, N=Ch.; O, P=Al.; Balance=Cu			
32-56		❖	●			30‡		24	6‡					-	-	-	-	A
32-57		❖	●			8			6			2(2)		-	-	-	-	Coax
32-58		❖	●			.4					4(4)			-	-	-	-	Coax
32-59		❖	●			42		40		2(2)				-	-	-	-	Coax
32-60		❖	●			23			15	8(8)				72	145	215	200	A/Coax
32-62		❖	●			23		16	2	3(2)	2			-	-	-	-	A/Coax
32-63					▼	5					5			-	-	-	-	D
32-64		❖	●			54		54						80	100	110	250	I
32-68		❖	●			16		12			4(4)			30	-	-	-	A/Coax
32-73		❖	●		▼	46		46						36	-	-	-	A
32-75		❖	●			9			2	7(7)				-	-	-	-	Coax
32-76		❖	●			19			19					44	147	254	-	A
32-79		❖	●			5				1	4			-	-	-	-	D
32-82		❖	●			16		12			4			30	-	-	-	A
32-414	✦					52		52						-	-	-	-	A
32-AF		❖	●			55		55						80	110	250	280	A
36-1	✦	✚^	●			22		18	4					80	110	250	280	D
36-3		✚^	●	■	▼	6			3			3		70	145	215	290	D
36-4		✚^	●			3						3		70	145	215	290	A(B, C) D(A)
36-5	✦	✚	●	■	▼	4						4		-	120	240	-	A
36-6	✦	✚	●	■	▼	6					4	2		35	110	250	325	A
36-7	✦	✚	●		▼	47		40	7					80	110	250	280	A
36-8	✦	✚	●		▼	47		46	1					80	110	250	280	A

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations ( ) Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						🌡	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
36-9	✦	✚	●		▼	31		14	14	2	1			80	125	235	280	A
36-10	✦	✚	●	■	▼	48		48						80	125	235	280	A
36-11	✦	❖	●		▽	48		48						36-10	100°			A
36-12	✦	❖	●		▽	48		48						36-10	250°			A
36-13		✚^	●			17		15	2					80	110	250	280	E(N,P,Q) A *(all others)*
36-14		✚^	●			16		6	5	5				90	180	270	-	D
36-15	✦	✚	●		▼	35		35						60	125	245	305	D(M) A *(all others)*
36-16		❖	●		▽	47		40	7					36-7	100°			A
36-17		❖	●		▽	47		40	7					36-7	250°			A
36-18		❖	●		▽	31		14	14	2	1			36-9	100°			A
36-20		❖	●			34		30	2	2				-	-	-	-	A
36-21		❖	●		▽	31		14	14	2	1			36-9	260°			A
36-22		❖	●			22			22					-	-	-	-	D
36-51		❖	●			4					2	2		-	127	-	-	D
36-52		✚^	●		▼	52		52						72	144	216	288	A
36-53		❖	●		▽	47		40	7				🌡	36-7	45° u, v, w=Al.; x, y, z=Ch.; Balance=Cu			
36-54		❖	●			39		31		8				-	-	-	-	A
36-55		❖	●			39‡		31		8‡				-	-	-	-	A
36-56		❖	●		▽	48		48					🌡	36-10 A, C, E, G, L, J, H, P, R, T, V, X, Z, b, d, f, h, k, q, n, m, u, w, y=Con.; Balance=Cu				
36-59		❖	●			53‡		50	3‡					-	-	-	-	A
36-60		❖	●			47‡		40	7‡					-	-	-	-	A
36-61		❖	●		▽	35		35					🌡	36-15 A, C, E, J, K, L, M, N, P, R, T, V, f, X, Y, h, j, c=Con.; Balance=Cu				
36-62		❖	●		▽	48		48					🌡	36-10 A, C, E=Al.; B, D, F=Ch.; Balance=Cu				
36-64		❖	●			4						4(4)		-	-	-	-	Coax
36-65		❖	●			4						4(4)		-	-	-	-	Coax
36-66					▽	56		52	4					110	250	260	280	A
36-71		❖	●			53		50	3					-	-	-	-	A
36-73		❖	●			7					7(7)			81	279	-	-	Coax
36-74		❖	●			44		43	1(1)					-	-	-	-	A
36-75		❖	●			48‡		48‡						-	-	-	-	A
36-76		❖	●			47		47						-	-	-	-	A
36-77		❖	●			7					7			81	279	-	-	D
36-78		❖	●			14		2		12				35	106	254	325	A
36-79		❖	●			20			20					30	110	250	330	A
36-80		❖	●			20‡			20‡					30	110	250	330	A
36-82		❖	●		▽	52		52					🌡	36-52 v, g=Ir.; p, y, c=Con. x=Ch.; Balance=Cu				
36-83		❖	●			7					7(7)			81	279	-	-	Coax
36-85		❖	●			35‡		35‡						-	-	-	-	A/D
36-403	✦					52		52						-	-	-	-	A
36-57		❖	●		▽	47		46	1				🌡	36-8 W=Al.; f=Ch.; Balance=Cu				
36-58		❖	●		▽	35		35					🌡	36-15 H=Al.; G=Ch.; Balance=Cu				
36-AF		❖	●			48		48						65	-	-	-	A
40-1		✚	●		▼	30		24	6					65	130	235	300	D
40-2					▽	23		23						80	110	250	280	D
40-3					▽	23		18	4		1			80	110	250	280	D

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations ( ) Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: **97** (✦=97) **AIT** (✚=MS; ❖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (🌡)
CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES							DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0	🌡	W	X	Y	Z	
40-4					▽	23		16	2	3	2			80	110	250	280	D
40-5##					▽	15			6	4	2	3		80	110	250	280	A
40-5		❖	●			5						5		33	-	-	270	A
40-6					▽	26		24	1			1		80	110	250	280	D
40-7					▽	22		18	2			2		80	110	250	280	P,Q,U,V,W,X=A; Bal.=D
40-9		✚	●		▼	47		24	22	1				65	125	225	310	A
40-10		✚^	●			29		16		9	4			65	125	225	310	A
40-35		❖	●			35			35					70	130	230	290	D
40-53		❖	●			60		60						80	110	250	280	A
40-56		✚	●		▼	85		85						72	144	216	288	A
40-57		❖	●			4						4		30	150	-	-	E
40-58		❖	●		▽	85		85					🌡	40-56 A, C, E, H, K, M, P, S, U, W, Y, a, c, f, h, j, m, p, r, t, v, x, z, AB, AD, AF, AJ, AL,AN, AP, AS, AU, AW, AY, BA, BC, BE, BH, BK, BM, BP, BS, BU=Ir.; Balance=Con.				
40-59		❖	●		▽	85		85					🌡	40-56 B=Ch.; C=Con.; Balance=Cu				
40-61		❖	●			59		55	3	1				-	-	-	-	A
40-62		✚	●		▽	60		60						30	130	220	290	A
40-63		❖	●			61‡		61‡						-	-	-	-	A
40-64		❖	●			36		20	3	13(13)				-	-	-	-	Coax
40-66		❖	●			4						4(4)		-	-	-	-	Coax
40-67		❖	●			11		1			10(10)			-	-	-	-	A/Coax
40-68		❖	●			21				21				-	-	-	-	A
40-70		❖	●			61		61						-	-	-	-	A
40-72		❖	●			11		1			10(10)			-	-	-	-	A/Coax
40-73		❖	●			61		61						-	-	-	-	A
40-74		❖	●			6			1		1(1)	4(4)		-	-	-	-	A/Coax
40-75		❖	●			5			1			4		-	-	-	-	E
40-77		❖	●			60		60					🌡	40-56 55, 60=Ir.; 57, 58, 59=Con.; 56=Ch.; Balance=Cu				
40-78		❖	●			60			60				🌡	40-53 50 51=Ir.; 27, 28, 29, 31, 32, 34, 36, 37=Con.; 25, 39, 40, 41=Al 43,44,45, 46, 47, 48, 49, 52, 53, 54=Ch.; Balance=Cu				
40-80		❖	●			11		1			10			72	144	210	288	A
40-81		❖	●			62‡		62‡						-	-	-	-	A
40-82		❖	●			62		62						-	-	-	-	A
40-85		❖	●			60‡		60‡						-	-	-	-	A
40-86		❖	●			4						4(4)		-	-	-	-	E/Coax
40-87		❖	●			7					7			37	74	285	322	D
40-AD		❖	●			8				4		4		45	-	-	-	A
40-AG		❖	●			38			38					37	74	285	322	A
40-AT		❖	●			43		18	24	1				80	110	250	280	A
40-AV		❖	●			3						3#2/0		90	180	270	-	D

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations ( ) Number of contacts that are coax ## Different per 1651 STD; 5-#12,2-#4