



*SMR Technologies, Inc.*  
*93 Nettie Fenwick Road*  
*Fenwick, WV 26202*

## **ELECTRICAL DEICER INSTALLATION RESISTANCE VALUES**

SMR REPORT NO. 97-33-068

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PREPARED BY: \_\_\_\_\_

DAN MCPHERSON  
MECHANICAL DESIGN ENGINEER

APPROVED BY: \_\_\_\_\_

DEWAYNE BOWLES  
DIRECTOR OF ENGINEERING

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**LIST OF REVISIONS**

<b>Date</b>	<b>Rev</b>	<b>Revision History</b>	<b>Approved By</b>
5/29/08	E	Create List of Revisions page, Added SMR1461-1, SMR2263, SMR3051-10, SMR6722, & SMR9050 resistance values. Removed P/N's SMR2635-10 and SMR802259-2	BDS
6/3/08	6	Add SMR1319, SMR1346, Change document revision letter series to number series for report consistency.	BDS
5/30/12	7	Added SMR3462-1, SMR3542-2, SMR3545-2, SMR102855, and SMR2890-07 resistance values.	BDS
6/20/12	8	Added SMR1990, SMR3029-1 and SMR697070208 resistance values.	BDS
12/08/14	9	Added SMR2251-1 and removed SMR2890-07 resistance values.	BDS
4/24/19	10	Replaced all mentions of B/E Aerospace with SMR Technologies. Added the following P/N's: SMR2546, SMR2547, SMR40183-18 and -20, SMR40245-57, -58 and -60, SMR660714270, SMR660714282, SMR815475-5, SMR820485-1.	DAB

## ELECTRICAL DEICER INSTALLATION RESISTANCE VALUES

Resistance Values in Ohms*						
Part Number(s)	1 Deicer Each Element		2 Deicers Parallel		3 Deicers Parallel	
	Max.	Min.	Max.	Min.	Max.	Min.
SMR102855	1.99	1.79	0.995	0.895	0.663	0.596
SMR1188 SERIES	5.16	4.68	2.58	2.34	1.72	1.56
SMR1214 SERIES	1.15	0.95	0.58	0.48	0.38	0.32
SMR1319 ENGINE INLET	1.764	1.596	-	-	-	-
SMR1346 ENGINE INLET	1.39	1.26	-	-	-	-
SMR1461-1 ENGINE INLET (Parting Strip) PS Shedding Area I (SAI) Shedding Area II (SAII)	2.05	1.85	-	-	-	-
	2.07	1.87	-	-	-	-
	2.33	2.11	-	-	-	-
SMR1601 SERIES	5.16	4.68	2.58	2.34	1.72	1.56
SMR1683-1 ENGINE INLET	1.646	1.490	-	-	-	-
SMR1895 SERIES	1.15	0.95	0.58	0.48	0.38	0.32
SMR1956-4	5.16	4.68	2.58	2.34	1.72	1.56
SMR1990-1 ENGINE INLET (Parting Strip) PS Shedding Area I (SAI) Shedding Area II (SAII)	1.361	1.231	-	-	-	-
	1.054	0.954	-	-	-	-
	1.372	1.242	-	-	-	-
SMR2152 SERIES	5.16	4.68	2.58	2.34	1.72	1.56
SMR2200, SMR2271 SERIES	4.90	4.70	2.45	2.35	1.63	1.57
SMR2251-1 ENGINE INLET ANTI-ICER	1.02	1.00	-	-	-	-
SMR2263	1.72	1.56	0.86	0.78	0.57	0.52
SMR2292, SMR2303 SERIES	1.12	1.03	0.56	0.52	0.37	0.34
SMR2336-12	3.36	3.06	1.68	1.53	1.12	1.02
SMR2351-3	2.23	2.10	1.12	1.05	0.74	0.70
SMR2546, SMR2547	67.72	61.18	33.86	30.59	22.58	20.39
SMR2560 SERIES	3.60	3.26	1.80	1.63	1.20	1.09
SMR2575 SERIES	3.60	3.26	1.80	1.63	1.20	1.09
SMR2595-7	4.10	3.79	2.05	1.90	1.37	1.26
SMR2598-10 Inboard Zone Outboard Zone	3.80	3.44	1.90	1.72	1.27	1.15
	3.84	3.44	1.92	1.72	1.28	1.15
SMR2702	5.16	4.68	2.58	2.34	1.72	1.56
SMR2715 SERIES	5.16	4.68	2.58	2.34	1.72	1.56
SMR2716	5.16	4.68	2.58	2.34	1.72	1.56
SMR2762-10	2.16	1.92	1.08	0.96	0.72	0.64
SMR2822	1.89	1.73	0.95	0.87	0.63	0.58
SMR3017-1	2.97	2.68	1.49	1.34	0.99	0.89
SMR3029-1	12.05	11.0	6.025	5.5	4.01	3.66
SMR3051-10	1.95	1.76	0.98	0.88	0.65	0.59
SMR3400-1	3.60	3.26	1.80	1.63	1.20	1.09
SMR3462-1	3.29	2.96	1.64	1.48	1.09	0.98
SMR3542-2 (INBOARD/ OUTBOARD)	5.30	4.61	2.65	2.30	1.76	1.53
SMR3545-2 (INBOARD/ OUTBOARD)	4.60	4.30	2.3	2.15	1.53	1.43
SMR40183-16,-17	2.25	2.03	1.13	1.02	0.75	0.68

**\* Notes:**

Four deicers in parallel have one-fourth the resistance of each deicer element.  
 Five deicers in parallel have one-fifth the resistance of each deicer element.  
 Six deicers in parallel have one-sixth the resistance of each deicer element.

## ELECTRICAL DEICER INSTALLATION RESISTANCE VALUES

Resistance Values in Ohms*						
Part Number(s)	1 Deicer Each Element		2 Deicers Parallel		3 Deicers Parallel	
	Max.	Min.	Max.	Min.	Max.	Min.
SMR40183-18, SMR40813-20	5.26	4.58	2.63	2.29	1.75	1.53
SMR40183-55	1.103	1.008	0.552	0.504	0.368	0.336
SMR40245-56, SMR40245-60	5.04	4.56	2.52	2.28	1.68	1.52
SMR40245-57	4.90	4.70	2.45	2.35	1.63	1.57
SMR40245-58	2.23	2.10	1.12	1.05	0.74	0.70
SMR660714270, SMR660714282	18.9	15.5	9.45	7.75	6.30	5.17
SMR6658, SMR6662	5.04	4.56	2.52	2.28	1.68	1.52
SMR6663	5.00	4.60	2.50	2.30	1.67	1.53
SMR6722	1.89	1.73	0.95	0.87	0.63	0.58
SMR6885      Inboard Zone Outboard Zone	3.986	3.448	1.993	1.724	1.329	1.149
	4.032	3.486	2.016	1.743	1.344	1.162
SMR6890	1.22	1.10	0.61	0.55	0.41	0.37
SMR6975-11	5.21	4.53	2.61	2.27	1.74	1.51
SMR715841	6.51	5.91	3.26	2.96	2.17	1.97
SMR802252-4	11.37	10.29	5.69	5.15	3.79	3.43
SMR802337-2	1.061	0.924	0.531	0.462	0.354	0.308
SMR815475-5	8.61	7.79	4.31	3.90	2.87	2.60
SMR820485-1	28.8	26.1	14.40	13.10	9.60	8.70
SMR697070208	33.20	30.10	16.60	15.05	11.06	10.03
SMR9050	4.90	4.70	2.45	2.35	1.63	1.57
<p><b>* Notes:</b>            Four deicers in parallel have one-fourth the resistance of each deicer element.            Five deicers in parallel have one-fifth the resistance of each deicer element.            Six deicers in parallel have one-sixth the resistance of each deicer element.</p>						