

Attenuators (QPL)

MIL-DTL-3933 Qualified (QPL)

Connectivity for
Business-Critical Continuity™

- Available in both Non-Screened and Screened versions
- 100% tested to M3933 requirements
- Designed for Harsh Environment / Military Applications
- DC to 18 GHz performance

Screened Attenuators per Table I of MIL-DTL-3933

Screening Tests:

Thermal Shock
Pre-Conditioning Electrical:

DC Resistance
VSWR

Attenuation
Conditioning
Post-Conditioning Electrical:

DC Resistance
VSWR

Attenuation
Radiographic Inspection

Non-Screened Attenuators per Table IV of MIL-DTL-3933

Group A Inspection Tests

Visual & Mechanical Examination
VSWR

Attenuation
Stability of Attenuation:
After Peak Power

Note: All Screened Attenuators are tested
100% per Table IV and I of MIL-DTL-3933.
All Non-Screened Attenuators are
tested 100% per Table IV of MIL-DTL-3933.

Emerson Connectivity Solutions, Midwest Microwave product line of Qualified Parts List (QPL) attenuators are qualified, manufactured and tested to the strict requirements of the MIL-DTL-M3933 product specification. Our QPL line of M3933/14, /16, /17 and /25 SMA and TNC attenuators are ruggedly constructed to meet your performance needs in the harshest of military environments.

To service your delivery needs, we strive to make most dB values available in short lead times or even off the shelf, for the most common values. If you would like more information, please contact our customer service department at 507.833.8822 or 800.247.8256.



MIL Part Slash No. Group	Description	Frequency (GHz)	Attenuation (dB)
MIL-DTL-3933/25	SMA Subminiature - Male/Female	DC - 4.0, DC - 12.4, DC - 18.0	0 - 20
MIL-DTL-3933/14	SMA Miniature - Male/Female	DC - 12.4	1 - 20
MIL-DTL-3933/16	SMA Miniature - Male/Female	DC - 18.0	0 - 20
MIL-DTL-3933/17	TNC - Male/Female	DC - 4.5, DC - 18.0	1-8, 10, 12, 15, 20

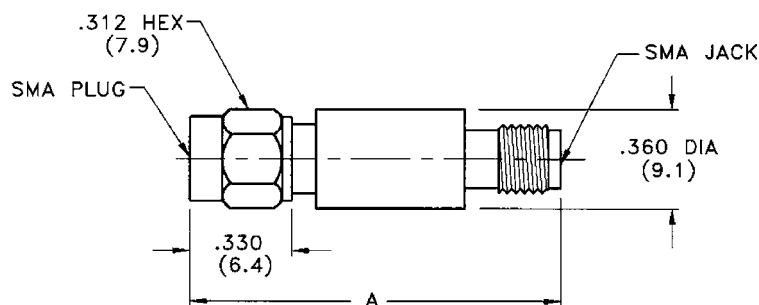
Midwest Microwave
Connectivity Solutions


EMERSON
Network Power

Attenuators – Fixed Coaxial

MIL-DTL-3933/14

Connectivity for
Business-Critical Continuity™



Military Part No.	Midwest Part No.	Dimension A inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
-01	M3933/14-01N	1.20 (30.5)	3.0	DC - 12.4	ATT-0205-03-SMA-02
-02	M3933/14-02N	1.20 (30.5)	6.0	DC - 12.4	ATT-0205-06-SMA-02
-03	M3933/14-03N	1.20 (30.5)	10.0	DC - 12.4	ATT-0205-10-SMA-02
-04	M3933/14-04N	1.20 (30.5)	20.0	DC - 12.4	ATT-0205-20-SMA-02
-05	M3933/14-05N	1.20 (30.5)	15.0	DC - 12.4	ATT-0205-15-SMA-02
-06	M3933/14-06N	1.20 (30.5)	1.0	DC - 12.4	ATT-0205-01-SMA-02
-07	M3933/14-07N	1.20 (30.5)	2.0	DC - 12.4	ATT-0205-02-SMA-02
-08	M3933/14-08N	1.20 (30.5)	4.0	DC - 12.4	ATT-0205-04-SMA-02
-09	M3933/14-09N	1.20 (30.5)	5.0	DC - 12.4	ATT-0205-05-SMA-02
-10	M3933/14-10N	1.20 (30.5)	7.0	DC - 12.4	ATT-0205-07-SMA-02
-11	M3933/14-11N	1.20 (30.5)	8.0	DC - 12.4	ATT-0205-08-SMA-02
-12	M3933/14-12N	1.20 (30.5)	9.0	DC - 12.4	ATT-0205-09-SMA-02
-18	M3933/14-18N	1.20 (30.5)	16.0	DC - 12.4	ATT-0205-16-SMA-02
-19	M3933/14-19N	1.20 (30.5)	14.0	DC - 12.4	ATT-0205-14-SMA-02
-20	M3933/14-20N	1.20 (30.5)	13.0	DC - 12.4	ATT-0205-13-SMA-02
-21	M3933/14-21N	1.20 (30.5)	12.0	DC - 12.4	ATT-0205-12-SMA-02
-22	M3933/14-22N	1.20 (30.5)	11.0	DC - 12.4	ATT-0205-11-SMA-02
-23	M3933/14-23N	1.20 (30.5)	1.5	DC - 12.4	ATT-0205-72-SMA-02

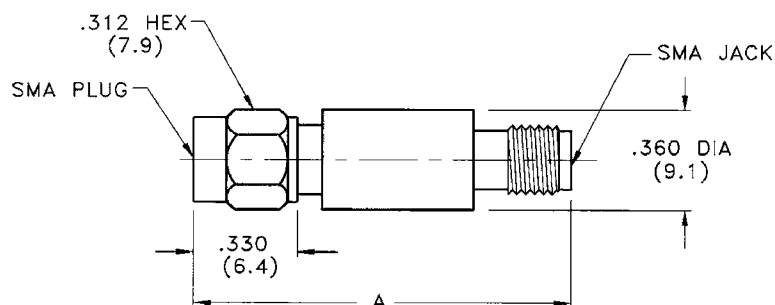
Note:

Midwest Microwave part number reflects a non-screened part. For a screened part, change suffix "N" to "S".

Attenuators – Fixed Coaxials

MIL-DTL-3933/16

Connectivity for
Business-Critical Continuity™



Military Part No.	Midwest Part No.	Dimension A inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
-01	M3933/16-01N	1.20 (30.5)	3.0	DC - 18.0	ATT-0263-03-SMA-02
-02	M3933/16-02N	1.20 (30.5)	6.0	DC - 18.0	ATT-0263-06-SMA-02
-03	M3933/16-03N	1.20 (30.5)	10.0	DC - 18.0	ATT-0263-10-SMA-02
-04	M3933/16-04N	1.20 (30.5)	20.0	DC - 18.0	ATT-0263-20-SMA-02
-05	M3933/16-05N	1.20 (30.5)	1.0	DC - 18.0	ATT-0263-01-SMA-02
-06	M3933/16-06N	1.20 (30.5)	2.0	DC - 18.0	ATT-0263-02-SMA-02
-07	M3933/16-07N	1.20 (30.5)	4.0	DC - 18.0	ATT-0263-04-SMA-02
-08	M3933/16-08N	1.20 (30.5)	5.0	DC - 18.0	ATT-0263-05-SMA-02
-09	M3933/16-09N	1.20 (30.5)	7.0	DC - 18.0	ATT-0263-07-SMA-02
-10	M3933/16-10N	1.20 (30.5)	8.0	DC - 18.0	ATT-0263-08-SMA-02
-11	M3933/16-11N	1.20 (30.5)	9.0	DC - 18.0	ATT-0263-09-SMA-02
-16	M3933/16-16N	1.20 (30.5)	0	DC - 18.0	ATT-0263-00-SMA-02
-17	M3933/16-17N	1.20 (30.5)	0.5	DC - 18.0	ATT-0263-70-SMA-02
-18	M3933/16-18N	1.20 (30.5)	1.5	DC - 18.0	ATT-0263-71-SMA-02
-19	M3933/16-19N	1.20 (30.5)	2.5	DC - 18.0	ATT-0263-72-SMA-02
-20	M3933/16-20N	1.20 (30.5)	3.5	DC - 18.0	ATT-0263-73-SMA-02
-21	M3933/16-21N	1.20 (30.5)	4.5	DC - 18.0	ATT-0263-74-SMA-02
-22	M3933/16-22N	1.20 (30.0)	5.5	DC - 18.0	ATT-0263-75-SMA-02
-23	M3933/16-23N	1.20 (30.5)	6.5	DC - 18.0	ATT-0263-76-SMA-02
-24	M3933/16-24N	1.20 (30.5)	7.5	DC - 18.0	ATT-0263-77-SMA-02
-25	M3933/16-25N	1.20 (30.5)	8.5	DC - 18.0	ATT-0263-78-SMA-02
-26	M3933/16-26N	1.20 (30.5)	9.5	DC - 18.0	ATT-0263-79-SMA-02
-27	M3933/16-27N	1.20 (30.5)	10.5	DC - 18.0	ATT-0263-80-SMA-02
-28	M3933/16-28N	1.20 (30.5)	11.0	DC - 18.0	ATT-0263-11-SMA-02

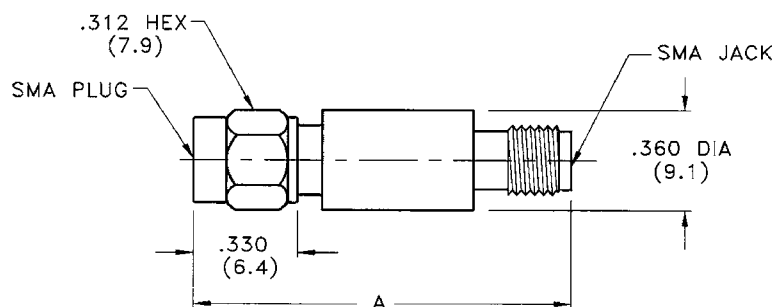
Note:

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Attenuators – Fixed Coaxial

MIL-DTL-3933/16

Connectivity for
Business-Critical Continuity™



Military Part No.	Midwest Part No.	Dimension A inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
- 29	M3933/16-29N	1.20 (30.5)	11.5	DC - 18.0	ATT-0263-81-SMA-02
- 30	M3933/16-30N	1.20 (30.5)	12.0	DC - 18.0	ATT-0263-12-SMA-02
- 31	M3933/16-31N	1.20 (30.5)	12.5	DC - 18.0	ATT-0263-82-SMA-02
- 32	M3933/16-32N	1.20 (30.5)	13.0	DC - 18.0	ATT-0263-13-SMA-02
- 33	M3933/16-33N	1.20 (30.5)	13.5	DC - 18.0	ATT-0263-83-SMA-02
- 34	M3933/16-34N	1.20 (30.5)	14.0	DC - 18.0	ATT-0263-14-SMA-02
- 35	M3933/16-35N	1.20 (30.5)	14.5	DC - 18.0	ATT-0263-84-SMA-02
- 36	M3933/16-36N	1.20 (30.0)	15.0	DC - 18.0	ATT-0263-15-SMA-02
- 37	M3933/16-37N	1.20 (30.5)	15.5	DC - 18.0	ATT-0263-85-SMA-02
- 38	M3933/16-38N	1.20 (30.5)	16.0	DC - 18.0	ATT-0263-16-SMA-02
- 39	M3933/16-39N	1.20 (30.5)	16.5	DC - 18.0	ATT-0263-86-SMA-02
- 40	M3933/16-40N	1.20 (30.5)	17.0	DC - 18.0	ATT-0263-17-SMA-02
- 41	M3933/16-41N	1.20 (30.5)	17.5	DC - 18.0	ATT-0263-87-SMA-02
- 42	M3933/16-42N	1.20 (30.5)	18.0	DC - 18.0	ATT-0263-18-SMA-02
- 43	M3933/16-43N	1.20 (30.5)	18.5	DC - 18.0	ATT-0263-88-SMA-02
- 44	M3933/16-44N	1.20 (30.5)	19.0	DC - 18.0	ATT-0263-19-SMA-02
- 45	M3933/16-45N	1.20 (30.5)	19.5	DC - 18.0	ATT-0263-89-SMA-02

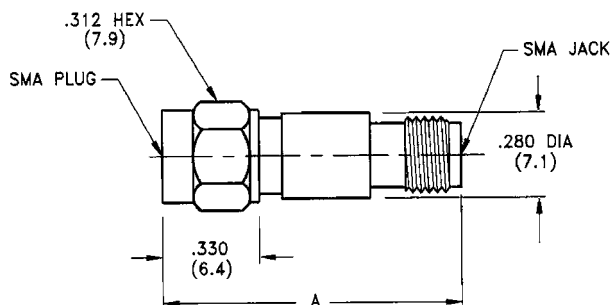
Note:

Midwest Microwave part number reflects a non-screened part. For a screened part, change suffix "N" to "S".

Attenuators – Fixed Coaxial

MIL-DTL-3933/25

Connectivity for
Business-Critical Continuity™



Military Part No.	Midwest Part No.	Dimension A inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
- 01	M3933/25-01N	0.86 (21.9)	1.0	DC - 2.0	ATT-0294-01-SMA-02
- 02	M3933/25-02N	0.86 (21.9)	2.0	DC - 2.0	ATT-0294-02-SMA-02
- 03	M3933/25-03N	0.86 (21.9)	3.0	DC - 2.0	ATT-0294-03-SMA-02
- 04	M3933/25-04N	0.86 (21.9)	4.0	DC - 2.0	ATT-0294-04-SMA-02
- 05	M3933/25-05N	0.86 (21.9)	5.0	DC - 2.0	ATT-0294-05-SMA-02
- 06	M3933/25-06N	0.86 (21.9)	6.0	DC - 2.0	ATT-0294-06-SMA-02
- 07	M3933/25-07N	0.86 (21.9)	7.0	DC - 2.0	ATT-0294-07-SMA-02
- 08	M3933/25-08N	0.86 (21.9)	8.0	DC - 2.0	ATT-0294-08-SMA-02
- 09	M3933/25-09N	0.86 (21.9)	9.0	DC - 2.0	ATT-0294-09-SMA-02
- 10	M3933/25-10N	0.86 (21.9)	10.0	DC - 2.0	ATT-0294-10-SMA-02
- 11	M3933/25-11N	0.86 (21.9)	11.0	DC - 2.0	ATT-0294-11-SMA-02
- 12	M3933/25-12N	0.86 (21.9)	12.0	DC - 2.0	ATT-0294-12-SMA-02
- 13	M3933/25-13N	1.02 (26.0)	13.0	DC - 2.0	ATT-0294-13-SMA-02
- 14	M3933/25-14N	1.02 (26.0)	14.0	DC - 2.0	ATT-0294-14-SMA-02
- 15	M3933/25-15N	1.02 (26.0)	15.0	DC - 2.0	ATT-0294-15-SMA-02
- 16	M3933/25-16N	1.02 (26.0)	16.0	DC - 2.0	ATT-0294-16-SMA-02
- 17	M3933/25-17N	1.02 (26.0)	17.0	DC - 2.0	ATT-0294-17-SMA-02
- 18	M3933/25-18N	1.02 (26.0)	18.0	DC - 2.0	ATT-0294-18-SMA-02
- 19	M3933/25-19N	1.02 (26.0)	19.0	DC - 2.0	ATT-0294-19-SMA-02
- 20	M3933/25-20N	1.02 (26.0)	20.0	DC - 2.0	ATT-0294-20-SMA-02
- 27	M3933/25-27N	0.86 (21.9)	1.0	DC - 12.4	ATT-0291-01-SMA-02
- 28	M3933/25-28N	0.86 (21.9)	2.0	DC - 12.4	ATT-0291-02-SMA-02
- 29	M3933/25-29N	0.86 (21.9)	3.0	DC - 12.4	ATT-0291-03-SMA-02
- 30	M3933/25-30N	0.86 (21.9)	4.0	DC - 12.4	ATT-0291-04-SMA-02
- 31	M3933/25-31N	0.86 (21.9)	5.0	DC - 12.4	ATT-0291-05-SMA-02
- 32	M3933/25-32N	0.86 (21.9)	6.0	DC - 12.4	ATT-0291-06-SMA-02
- 33	M3933/25-33N	0.86 (21.9)	7.0	DC - 12.4	ATT-0291-07-SMA-02
- 34	M3933/25-34N	0.86 (21.9)	8.0	DC - 12.4	ATT-0291-08-SMA-02
- 35	M3933/25-35N	0.86 (21.9)	9.0	DC - 12.4	ATT-0291-09-SMA-02

Note:
Midwest Microwave part number reflects a non-screened part. For a screened part, change suffix "N" to "S".

Attenuators – Fixed Coaxial

MIL-DTL-3933/25 (Continued from previous page)

Connectivity for
Business-Critical Continuity™

Military Part No.	Midwest Part No.	Dimension A – inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
- 36	M3933/25-36N	0.86 (21.9)	10.0	DC - 12.4	ATT-0291-10-SMA-02
- 37	M3933/25-37N	0.86 (21.9)	11.0	DC - 12.4	ATT-0291-11-SMA-02
- 38	M3933/25-38N	0.86 (21.9)	12.0	DC - 12.4	ATT-0291-12-SMA-02
- 39	M3933/25-39N	0.94 (23.9)	13.0	DC - 12.4	ATT-0291-13-SMA-02
- 40	M3933/25-40N	0.94 (23.9)	14.0	DC - 12.4	ATT-0291-14-SMA-02
- 41	M3933/25-41N	0.94 (23.9)	15.0	DC - 12.4	ATT-0291-15-SMA-02
- 42	M3933/25-42N	0.94 (23.9)	16.0	DC - 12.4	ATT-0291-16-SMA-02
- 43	M3933/25-43N	0.94 (23.9)	17.0	DC - 12.4	ATT-0291-17-SMA-02
- 44	M3933/25-44N	0.94 (23.9)	18.0	DC - 12.4	ATT-0291-18-SMA-02
- 45	M3933/25-45N	0.94 (23.9)	19.0	DC - 12.4	ATT-0291-19-SMA-02
- 46	M3933/25-46N	1.02 (26.0)	20.0	DC - 12.4	ATT-0291-20-SMA-02
- 58	M3933/25-58N	0.86 (21.9)	0	DC - 18.0	ATT-0290-00-SMA-02
- 59	M3933/25-59N	0.86 (21.9)	0.5	DC - 18.0	ATT-0290-70-SMA-02
- 60	M3933/25-60N	0.86 (21.9)	1.0	DC - 18.0	ATT-0290-01-SMA-02
- 61	M3933/25-61N	0.86 (21.9)	1.5	DC - 18.0	ATT-0290-71-SMA-02
- 62	M3933/25-62N	0.86 (21.9)	2.0	DC - 18.0	ATT-0290-02-SMA-02
- 63	M3933/25-63N	0.86 (21.9)	2.0	DC - 18.0	ATT-0290-72-SMA-02
- 64	M3933/25-64N	0.86 (21.9)	3.0	DC - 18.0	ATT-0290-03-SMA-02
- 65	M3933/25-65N	0.86 (21.9)	3.5	DC - 18.0	ATT-0290-73-SMA-02
- 66	M3933/25-66N	0.86 (21.9)	4.0	DC - 18.0	ATT-0290-04-SMA-02
- 67	M3933/25-67N	0.86 (21.9)	4.5	DC - 18.0	ATT-0290-74-SMA-02
- 68	M3933/25-68N	0.86 (21.9)	5.0	DC - 18.0	ATT-0290-05-SMA-02
- 69	M3933/25-69N	0.86 (21.9)	5.5	DC - 18.0	ATT-0290-75-SMA-02
- 70	M3933/25-70N	0.86 (21.9)	6.0	DC - 18.0	ATT-0290-06-SMA-02
- 71	M3933/25-71N	0.86 (21.9)	6.5	DC - 18.0	ATT-0290-76-SMA-02
- 72	M3933/25-72N	0.86 (21.9)	7.0	DC - 18.0	ATT-0290-07-SMA-02
- 73	M3933/25-73N	0.86 (21.9)	7.5	DC - 18.0	ATT-0290-77-SMA-02
- 74	M3933/25-74N	0.86 (21.9)	8.0	DC - 18.0	ATT-0290-08-SMA-02
- 75	M3933/25-75N	0.86 (21.9)	8.5	DC - 18.0	ATT-0290-78-SMA-02
- 76	M3933/25-76N	0.86 (21.9)	9.0	DC - 18.0	ATT-0290-09-SMA-02
- 77	M3933/25-77N	0.86 (21.9)	9.5	DC - 18.0	ATT-0290-79-SMA-02
- 78	M3933/25-78N	0.86 (21.9)	10.0	DC - 18.0	ATT-0290-10-SMA-02
- 79	M3933/25-79N	0.86 (21.9)	11.0	DC - 18.0	ATT-0290-11-SMA-02
- 80	M3933/25-80N	0.86 (21.9)	12.0	DC - 18.0	ATT-0290-12-SMA-02
- 81	M3933/25-81N	0.94 (23.9)	13.0	DC - 18.0	ATT-0290-13-SMA-02
- 82	M3933/25-82N	0.94 (23.9)	14.0	DC - 18.0	ATT-0290-14-SMA-02
- 83	M3933/25-83N	1.02 (26.0)	15.0	DC - 18.0	ATT-0290-15-SMA-02
- 84	M3933/25-84N	1.02 (26.0)	16.0	DC - 18.0	ATT-0290-16-SMA-02
- 85	M3933/25-85N	1.02 (26.0)	17.0	DC - 18.0	ATT-0290-17-SMA-02
- 86	M3933/25-86N	1.02 (26.0)	18.0	DC - 18.0	ATT-0290-18-SMA-02
- 87	M3933/25-87N	1.02 (26.0)	19.0	DC - 18.0	ATT-0290-19-SMA-02
- 88	M3933/25-88N	1.02 (26.0)	20.0	DC - 18.0	ATT-0290-20-SMA-02

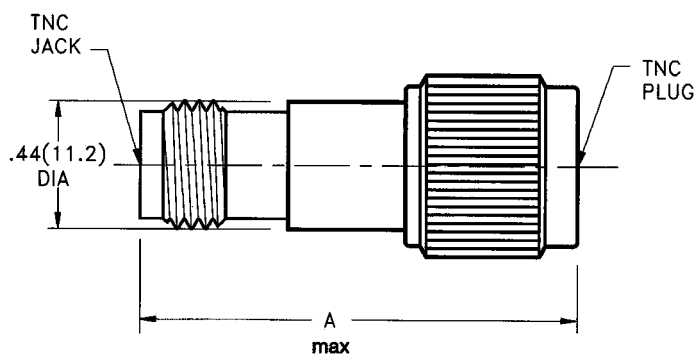
Note:

Midwest Microwave part number reflects a non-screened part. For a screened part, change suffix "N" to "S".

Attenuators-TNC Type-Fixed Coaxial

MMIL-DTL-3933/17

Connectivity for
Business-Critical Continuity™



Military Part No.	Midwest Part No.	Dimension A inches (mm) (max.)	Attenuation Value (dB) (nom.)	Frequency Range (GHz)	Commercial Alternate
- 01	M3933/17-01N	1.57 (39.9)	1.0	DC - 4.5	ATT-0224-01-TNC-02
- 02	M3933/17-02N	1.57 (39.9)	2.0	DC - 4.5	ATT-0224-02-TNC-02
- 03	M3933/17-03N	1.57 (39.9)	3.0	DC - 4.5	ATT-0224-03-TNC-02
- 04	M3933/17-04N	1.57 (39.9)	4.0	DC - 4.5	ATT-0224-04-TNC-02
- 05	M3933/17-05N	1.57 (39.9)	5.0	DC - 4.5	ATT-0224-05-TNC-02
- 06	M3933/17-06N	1.57 (39.9)	6.0	DC - 4.5	ATT-0224-06-TNC-02
- 07	M3933/17-07N	1.57 (39.9)	20.0	DC - 18.0	ATT-0225-20-TNC-02
- 09	M3933/17-09N	1.57 (39.9)	1.0	DC - 18.0	ATT-0225-01-TNC-02
- 10	M3933/17-10N	1.57 (39.9)	2.0	DC - 18.0	ATT-0225-02-TNC-02
- 11	M3933/17-11N	1.57 (39.9)	3.0	DC - 18.0	ATT-0225-03-TNC-02
- 12	M3933/17-12N	1.57 (39.9)	4.0	DC - 18.0	ATT-0225-04-TNC-02
- 13	M3933/17-13N	1.57 (39.9)	5.0	DC - 18.0	ATT-0225-05-TNC-02
- 14	M3933/17-14N	1.57 (39.9)	6.0	DC - 18.0	ATT-0225-06-TNC-02
- 15	M3933/17-15N	1.57 (39.9)	7.0	DC - 18.0	ATT-0225-07-TNC-02
- 16	M3933/17-16N	1.57 (39.9)	8.0	DC - 18.0	ATT-0225-08-TNC-02
- 17	M3933/17-17N	1.57 (39.9)	10.0	DC - 18.0	ATT-0225-10-TNC-02
- 18	M3933/17-18N	1.57 (39.9)	12.0	DC - 18.0	ATT-0225-12-TNC-02
- 19	M3933/17-19N	1.57 (39.9)	15.0	DC - 18.0	ATT-0225-15-TNC-02

Note:

Midwest Microwave part number reflects a non-screened part. For a screened part, change suffix "N" to "S".

Emerson Network Power Connectivity Solutions

US Headquarters

3000 Lakeside Drive, Ste. 308N
Bannockburn, IL 60015, USA

North America

299 Johnson Avenue, Ste. 100
Waseca, MN 56093, USA
Toll Free: 800.247.8256
Tel: +1 507.833.8822
Fax: +1 507.833.6287

ECSorders@Emerson.com

Europe, Middle East, Africa

Emerson Network Power Connectivity Solutions, Ltd.
7-13 Russell Way
Widford Industrial Estate
Chelmsford, Essex CM1 3AA
Tel: +44 1245.359.515
Fax: +44 1245.358.938

EMEAConnectivitySales@Emerson.com

Asia Pacific

Emerson Network Power Connectivity Solutions
(Shanghai) Co., Ltd.
Building 1, No. 800 ShenFu Road
XinZhliang Industry Park
Shanghai, China 201108
Tel: +86 21.5442.7668
Fax: +86 21.5442.7628

APConnectivitySales@Emerson.com

About Emerson Network Power Connectivity Solutions

Emerson Network Power Connectivity Solutions, an Emerson business, serves the needs of wireless communications, military, telephony and data networks, CATV security systems, health care, military and industrial facilities with a full spectrum of RF/microwave and fiber optic connectivity products. For more information, visit **www.EmersonConnectivity.com**

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M3933/16-01N	M3933/16-02N	M3933/16-03N	M3933/16-56N	M3933/16-57N	M3933/16-58N	M3933/16-53N
M3933/16-54N	M3933/16-55N	M3933/16-50N	M3933/16-51N	M3933/16-52N	M3933/16-46N	M3933/16-48N
M3933/16-43N	M3933/16-44N	M3933/16-45N	M3933/16-40N	M3933/16-41N	M3933/16-42N	M3933/16-37N
M3933/16-38N	M3933/16-39N	M3933/16-34N	M3933/16-35N	M3933/16-36N	M3933/16-31N	M3933/16-32N
M3933/16-33N	M3933/16-28N	M3933/16-29N	M3933/16-30N	M3933/16-25N	M3933/16-26N	M3933/16-27N
M3933/16-22N	M3933/16-23N	M3933/16-24N	M3933/16-18N	M3933/16-19N	M3933/16-20N	M3933/16-21N
M3933/16-13N	M3933/16-16N	M3933/16-17N	M3933/16-10N	M3933/16-11N	M3933/16-12N	M3933/16-07N
M3933/16-08N	M3933/16-09N	M3933/16-04N	M3933/16-05N	M3933/16-06N	M3933/14-01N	M3933/14-02N
M3933/14-03N	M3933/14-24N	M3933/14-21N	M3933/14-22N	M3933/14-23N	M3933/14-18N	M3933/14-19N
M3933/14-20N	M3933/14-14N	M3933/14-17N	M3933/14-11N	M3933/14-12N	M3933/14-13N	M3933/14-08N
M3933/14-09N	M3933/14-10N	M3933/14-04N	M3933/14-05N	M3933/14-06N	M3933/14-07N	M3933/25-60N
M3933/25-62N	M3933/25-64N	M3933/25-66N	M3933/25-68N	M3933/25-70N	M3933/25-72N	M3933/25-74N
M3933/25-76N	M3933/25-78N	M3933/25-88N	M3933/17-04N	M3933/25-23N	M3933/25-15N	M3933/25-20N
M3933/17-13N	M3933/25-28N	M3933/25-33N	M3933/25-61N	M3933/17-11N	M3933/17-18N	M3933/25-35N
M3933/25-38N	M3933/17-16N					