

Laboratory	EMC Test Services - Astra Microwave Products Limited, Plot No. 18-21, Imarath Kancha, Hardware Park, Raviryala Village, Maheshwaram Mandal, Ranga Reddy District, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electronics Testing	Issue Date	11.09.2015
Certificate Number	T-3588	Valid Until	10.09.2017
Last Amended on	-	Page	1 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. EMC TEST FACILITY				
1.	Electrical/ Electronic Equipment System/ Subsystem	Conducted Emission Power leads	MIL-STD-461C: 1986	30 Hz to 50 MHz 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993	30 Hz to 10 kHz
			MIL-STD-461E: 1999	1Φ/3Φ: 25 A
			MIL-STD-461F: 2007	Upto 70 A DC
			MIL-STD-461D: 1993	10 kHz to 10 MHz
			MIL-STD-461E: 1999	1Φ/3Φ: 25 A
		MIL-STD-461F: 2007	Upto 70 A DC	
		Conducted Emission Antenna Terminal	MIL-STD-461C: 1986	10 kHz to 26 GHz 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993	10 kHz to 40 GHz
			MIL-STD-461E: 1999	1Φ/3Φ: 25 A
			MIL-STD-461F: 2007	Upto 70 A DC
			Radiated Emission Magnetic Field	MIL-STD-461C: 1986
	MIL-STD-461D: 1993			30 Hz to 100 kHz
		MIL-STD-461E: 1999	1Φ/3Φ: 25 A	
		MIL-STD-461F: 2007	Upto 70 A DC	
	Radiated Emission Electric Field	MIL-STD-461C: 1986	14 kHz to 10 GHz 1Φ/3Φ: 25 A Upto 70 A DC	

Laboratory	EMC Test Services - Astra Microwave Products Limited, Plot No. 18-21, Imarath Kancha, Hardware Park, Raviryala Village, Maheshwaram Mandal, Ranga Reddy District, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electronics Testing	Issue Date	11.09.2015
Certificate Number	T-3588	Valid Until	10.09.2017
Last Amended on	-	Page	2 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Electrical/ Electronic Equipment System/ Subsystem	Radiated Emission Electric Field	MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	10 kHz to 18 GHz 1Φ/3Φ: 25 A Upto 70 A DC
		Radiated Emission, Antenna Spurious And Harmonic Outputs	MIL-STD-461C: 1986	Product Current Limitation: 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	10 kHz to 18 GHz 1Φ/3Φ: 25 A Upto 70 A DC
		Conducted Susceptibility Power Leads	MIL-STD-461C: 1986	30 Hz to 50 kHz Upto 136 dBμV 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	30 Hz to 150 kHz Upto 136 dBμV 1Φ/3Φ: 25 A Upto 70 A DC
		Conducted Susceptibility Intermodulation	MIL-STD-461C: 1986	15 kHz to 10 GHz 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	15 kHz to 10 GHz 1Φ/3Φ: 25 A Upto 70 A DC

Laboratory	EMC Test Services - Astra Microwave Products Limited, Plot No. 18-21, Imarath Kancha, Hardware Park, Raviryala Village, Maheshwaram Mandal, Ranga Reddy District, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electronics Testing	Issue Date	11.09.2015
Certificate Number	T-3588	Valid Until	10.09.2017
Last Amended on	-	Page	3 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Electrical/ Electronic Equipment System/ Subsystem	Conducted Susceptibility, Rejection of Undesired Signal	MIL-STD-461C: 1986	30 Hz to 20 GHz 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	30 Hz to 20 GHz 1Φ/3Φ: 25 A Upto 70 A DC
			Conducted Susceptibility Antenna Port, Cross-Modulation	MIL-STD-461C: 1986
		MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007		30 Hz to 20 GHz 1Φ/3Φ: 25 A Upto 70 A DC
		Conducted Susceptibility Transients Power Leads		MIL-STD-461C: 1986
			MIL-STD-461F: 2007	Upto 400 V Peak 1Φ/3Φ: 25 A Upto 70 A DC
		Conducted Susceptibility Structure Current	MIL-STD-461C: 1986	60 Hz to 100 kHz Upto 120 dB μA 1Φ/3Φ: 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	60 Hz to 100 kHz Upto 120 dB μA 1Φ/3Φ: 25 A Upto 70 A DC

Laboratory	EMC Test Services - Astra Microwave Products Limited, Plot No. 18-21, Imarath Kancha, Hardware Park, Raviryala Village, Maheshwaram Mandal, Ranga Reddy District, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electronics Testing	Issue Date	11.09.2015
Certificate Number	T-3588	Valid Until	10.09.2017
Last Amended on	-	Page	4 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Electrical/ Electronic Equipment System/ Subsystem	Conducted Susceptibility Bulk cable injection	MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	10 kHz to 400 MHz Upto 110 dB μ A 1 Φ /3 Φ : 25 A Upto 70 A DC
		Conducted Susceptibility Impulse Excitation	MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	Upto 5 A Peak 1 Φ /3 Φ : 25 A Upto 70 A DC
		Conducted Susceptibility, Damped Sinusoidal Transients	MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	10 kHz to 100 MHz 0.1 A to 10 A 1 Φ /3 Φ : 25 A Upto 70 A DC
		Radiated Susceptibility Magnetic Field	MIL-STD-461C: 1986	30 Hz to 50 kHz Upto 183 dBpT 1 Φ /3 Φ : 25 A Upto 70 A DC
			MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	30 Hz to 100 kHz Upto 183 dBpT 1 Φ /3 Φ : 25 A Upto 70 A DC
		Radiated Susceptibility Electric Field	MIL-STD-461C: 1986	14 kHz to 18 GHz Upto 60 V/m 1 Φ /3 Φ : 25 A Upto 70 A DC
	Radiated Susceptibility Electric Field	MIL-STD-461D: 1993 MIL-STD-461E: 1999 MIL-STD-461F: 2007	14 kHz to 18 GHz Upto 60 V/m 1 Φ /3 Φ : 25 A Upto 70 A D	

Laboratory EMC Test Services - Astra Microwave Products Limited, Plot No. 18-21,
Imarath Kancha, Hardware Park, Raviryala Village, Maheshwaram
Mandal, Ranga Reddy District, Telangana

Accreditation Standard ISO/IEC 17025: 2005

Discipline Electronics Testing **Issue Date** 11.09.2015

Certificate Number T-3588 **Valid Until** 10.09.2017

Last Amended on - **Page** 5 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Electrical/ Electronic Equipment System/ Subsystem	Electrostatic Discharge Susceptibility ESD	IEC 61000-4-2: 2008 IEC 801-2: 1984	(±)30 kV 1Φ/3Φ: 25 A Upto 70 A DC

-X-X-X-X-X-X-X-X-X-X-X-X-