



# MOTOTRBO SLR 5000 SERIES REPEATER

For your organization to be successful, you need dependable voice and data communications that reach every corner of your operations. The MOTOTRBO SLR 5000 Series repeater delivers high performance, high reliability two-way radio service with all the features you need to connect your workplace.

With its sleek form factor and low power consumption, it's engineered for low cost of ownership. And with a huge leap forward in technology, it represents the next generation in repeaters. Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers advanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor.

Whether you need the simplicity of a single site conventional system, or the powerful trunking capabilities of Capacity Plus, Capacity Max or Connect Plus, the SLR 5000 Series delivers the power of digital two-way radio to your workforce. It can also operate as an analog repeater (conventional or MPT 1327), or as a mixed mode analog/digital repeater while you transition away from a legacy analog system.

#### NEXT GENERATION MOTOTRBO REPEATER

The SLR 5000 Series represents a huge leap forward in design and technology. Based on a wealth of field experience, customer feedback and technological innovation, the product delivers outstanding performance and efficiency for your business two-way radio system. From rock-solid reliability to clever touches like an integrated battery charger, the SLR 5000 Series is truly the next generation in repeaters.

#### **HIGH PERFORMANCE**

The SLR 5000 Series is designed to offer round-the-clock reliable operation, even at its continuous full transmit power of 50W. The high-quality design has been validated through Motorola's Accelerated Life Testing (ALT) program, and meets stringent quality criteria.

To deliver reliable coverage throughout your premises, the product has a next-generation receiver design, with high sensitivity and improved noise blocking. Combined with the 50W transmit output power and digital error correction, this gives you clear voice quality, even in the most adverse conditions.

The SLR 5000 Series supports the full MOTOTRBO feature set, and is compatible with all the MOTOTRBO system architectures: single site conventional, IP Site Connect, Capacity Plus (single and multi-site), Capacity Max and Connect Plus. The IP interface allows you to build applications and consoles directly into your system.

To help you build your system for top performance, MOTOTRBO RF Planning and IP Integration Services are available for purchase.

# **HIGH EFFICIENCY**

The latest RF technology gives the SLR 5000 Series exceptionally good power efficiency. Together with its space-efficient 1U height and low thermal footprint, it gives you a very low cost of ownership.

The product has simple servicing requirements, with field-replaceable Power Amplifier, Power Supply and Modem modules. A front panel USB port allows easy configuration, with optional support for remote management. It also has built-in features such as a 3A battery charger, external alarm ports and an auxiliary power output to ease site installation.

The standard warranty is 2 years, and can be enhanced with Service from the Start: a full service support program that protects your hardware investment with prioritized expert repair, proactive technical support, software updates and more.

### **DESIGNED FOR THE FUTURE**

Motorola is committed to supporting you with even more sophisticated workforce communication solutions as your needs evolve, so the SLR 5000 Series is designed with the future in mind. Compared to first generation repeaters, it has 10x more processing power, 15x more memory and 125x more data storage. The architecture even has provision for expansion modules, should more functionality be required in the future.

## **MOTOTRBO SLR 5000 SERIES**

With excellent performance, high reliability and clever design in a small, slim unit, the SLR 5000 Series repeater is at the heart of a MOTOTRBO professional two-way radio system. To find out more, please contact your local authorized Motorola Channel Partner.



#### **PRODUCT DATA SHEET** MOTOTRBO™ SLR SERIES REPEATER

### **GENERAL SPECIFICATIONS**

Dimensions (H x W x D)     1.75 x 19 x 14.6 in (44 x 483 x 370 mm)       Weight     19 lbs (8.6 kg)       Input Voltage (AC)     0.0240 Vac, 47-63 Hz       Current (standby), 110 / 240 V     0.18 / 0.25 A       Current (transmitting), 110 / 240 V     1.5 / 0.9 A       Input Voltage (DC)     11.0-14.4 Vdc       Current (standby)     0.7 A       Current (standby)     9.5 A       Operating Temperature Range     -22 to +140 °F (-30 to +60 °C)       Humidity     RH of 95%, non-condensing at 122F (50 C)       Max Duty Cycle     100%       CC Description     ABZ99FT3094       I D9AB-99FT4096     ABZ99FT4097       Digital Vocoder Type     AMBE+27M       Battery Charger Capacity     12 V, 3 A       Connectivity     Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet       Supported System Types     Digital Conventional, IP Site Connect, Capacity Plus, Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327       RECEIVER     Frequency Range     136-174 MHz     400-470 MHz     450-512 MHz       Channel Spacing     25″ / 12.5 kHz     0.22 uV     Sensitivity, 12dB SINAD     0.22 uV     Sensitivity, 5		VHF	UHF	UHF2	
RF Output Power   1-50 W     Dimensions (H x W x D)   1.75 x 19 x 14.6 in (44 x 483 x 370 mm)     Weight   19 lbs (8.6 kg)     Input Voltage (AC)   0.100-240 Vac, 47-63 Hz     Current (standby), 110 / 240 V   0.18 / 0.25 A     Current (transmitting), 110 / 240 V   1.5 / 0.9 A     Input Voltage (DC)   11.0-14.4 Vdc     Current (transmitting)   9.5 A     Operating Temperature Range	Frequency Range	136-174 MHz	400-470 MHz	450-512 MHz	
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Weight     Imput Voltage (AC)     Imput Voltage (AC)       Current (standby), 110 / 240 V     0.18 / 0.25 A       Current (transmitting), 110 / 240 V     1.5 / 0.9 A       Input Voltage (DC)     11.0-14.4 Vdc       Current (standby)     0.7 A       Current (transmitting)     9.5 A       Operating Temperature Range     -22 to +140 °F (-30 to +60 °C)       Humidity     RH of 95%, non-condensing at 122F (50 C)       Max Duty Cycle     109AB-99F13094     AB299F14096       Corrent (transmitting)     0.94.99F14096     AB299F14097       C Description     AB299F13094     AB299F14096     AB299F14097       C Description     109AB-99F13094     109AB-99F14096     109AB-99F14097       Digital Vocoder Type	RF Output Power		1-50 W		
Input Voltage (AC)     100-240 Vac, 47-63 Hz       Current (standby), 110 / 240 V     0.18 / 0.25 A       Current (transmitting), 110 / 240 V     1.5 / 0.9 A       Input Voltage (DC)     11.0-14.4 Vdc       Current (standby)     0.7 A       Current (transmitting)     9.5 A       Operating Temperature Range     -22 to +140 °F (-30 to +60 °C)       Humidity     RH of 95%, non-condensing at 122F (50 C)       Max Duty Cycle     100%       FCC Description     ABZ99FT3094     ABZ99FT4096       ABZ99FT4096     ABZ99FT4096     109AB-99FT4097       Ic Description     109AB-99FT3094     109AB-99FT4096     109AB-99FT4097       Ic Description     ABZ99FT3094     ABZ99FT4096     109AB-99FT4097       Ic Description     109AB-99FT3094     109AB-99FT4096     109AB-99FT4097       Ic Description     109AB-99FT4097     12 / 3 A     12 / 3 A <td>Dimensions (H x W x D)</td> <td>1.75</td> <td>x 19 x 14.6 in (44 x 483 x 370 mr</td> <td>n)</td>	Dimensions (H x W x D)	1.75	x 19 x 14.6 in (44 x 483 x 370 mr	n)	
Current (standby), 110 / 240 V     0.18 / 0.25 A       Current (transmitting), 110 / 240 V     1.5 / 0.9 A       Input Voltage (DC)     11.0-14.4 Vdc       Current (standby)     0.7 A       Current (transmitting)     9.5 A       Operating Temperature Range     -22 to +140 °F (-30 to +60 °C)       Humidity     RH of 95%, non-condensing at 122F (50 C)       Max Duty Cycle     100%       FCC Description     ABZ99FT3094       ABZ99FT4096     ABZ99FT4096       Connectivity     109AB-99FT3094       Digital Vocoder Type     AMBE+27M       Battery Charger Capacity     12 V, 3 A       Connectivity     Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet       Supported System Types     Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327       RECEIVER       Frequency Range     136-174 MHz     400-470 MHz     450-512 MHz       Channel Spacing     25*/ 12.5 kHz     5 ppm     5 ppm       Sensitivity, 12d SINAD     0.22 uV     5 ppm     5 ppm       Selectivity (TIA603D), 25* / 12.5 kHz     83 / 55 dB	Weight		19 lbs (8.6 kg)		
Current (transmitting), 110 / 240 V     1.5 / 0.9 A       Input Voltage (DC)     11.0-14.4 Vdc       Current (standby)     0.7 A       Current (transmitting)     9.5 A       Operating Temperature Range     -22 to +140 °F (-30 to +60 °C)       Humidity     RH of 95%, non-condensing at 122F (50 C)       Max Duty Cycle     100%       FCC Description     ABZ99FT3094     ABZ99FT4096       I Obgene (Description)     109AB-99FT3094     109AB-99FT4096       I Obgene (Description)     109AB-99FT3094     109AB-99FT4096       Digital Vocoder Type     AMBE+2TM     109AB-99FT4096       Battery Charger Capacity     12 V, 3 A     12 V, 3 A       Connectivity     Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet     Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327       RECEIVER     Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327       Receiver     Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327       Receiver     0.22 uV     Selectivity (TAG03D), 25* / 12.5 kHz	Input Voltage (AC)		100-240 Vac, 47-63 Hz		
Input Voltage (DC) 11.0-14.4 Vdc Current (standby) 0.7 A Current (transmitting) 9.5 A Operating Temperature Range -22 to +140 °F (-30 to +60 °C) Humidity RH of 95%, non-condensing at 122F (50 C) Max Duty Cycle 100% FCC Description ABZ99FT3094 ABZ99FT4096 ABZ99FT4097 IC Description 109AB-99FT3094 109AB-99FT4096 109AB-99FT4097 Digital Vocoder Type AMBE+2 <sup>TM</sup> Battery Charger Capacity 12 V, 3 A Connectivity Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327 <b>RECEIVER</b> Frequency Range 136-174 MHz 400-470 MHz 450-512 MHz Channel Spacing -25*/ 12.5 kHz Frequency Stability 0.55 ppm Sensitivity, 12dB SINAD 0.22 uV Sensitivity, 12dB SINAD 0.22 uV Sensitivity, 12dB SINAD 0.22 uV Sensitivity (TIA603D), 25* / 12.5 kHz 83 / 55 dB 80 / 55 dB Selectivity (TIA603D), 25* / 12.5 kHz 83 / 68 dB Selectivity (TIA603D), 25* / 12.5 kHz 83 / 68 dB Selectivity (TIA603D), 25* / 12.5 kHz 83 / 68 dB Selectivity (TIA603D, 25* / 12.5 kHz 70 / 63 dB Intermodulation Rejection (TIA603D/ETSI)	Current (standby), 110 / 240 V		0.18 / 0.25 A		
Current (standby)   0.7 A     Current (standby)   0.7 A     Current (standby)   9.5 A     Operating Temperature Range   -22 to +140 °F (-30 to +60 °C)     Humidity   RH of 95%, non-condensing at 122F (50 C)     Max Duty Cycle   100%     FCC Description   ABZ99FT3094   ABZ99FT4096   ABZ99FT4097     IC Description   109AB-99FT3094   109AB-99FT4096   109AB-99FT4097     IC Description   109AB-99FT3094   ABZ99FT4096   109AB-99FT4097     IC Description   109AB-99FT3094   109AB-99FT4097   109AB-99FT3094   109AB-99FT3094     Supported System Types   IDigital Conventional, IP Site Connect, Capacity Plus (Single Site and M	Current (transmitting), 110 / 240 V		1.5 / 0.9 A		
Current (transmitting)9.5 AOperating Temperature Range-22 to +140 °F (-30 to +60 °C)HumidityRH of 95%, non-condensing at 122F (50 C)Max Duty Cycle100%FCC DescriptionABZ99FT3094ABZ99FT4096ABZ99FT4097109AB-99FT4096109AB-99FT4097IC Description109AB-99FT3094109AB-99FT4096109AB-99FT4097Digital Vocoder TypeAMBE+2™Battery Charger Capacity12 V, 3 AConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel Spacing25*/ 12.5 kHz0.5 ppmSensitivity, 12dB SINAD0.22 uV0.5 ppmSensitivity, 12dB SINAD0.22 uV0.22 uVSelectivity (TIA603D), 25* / 12.5 kHz83 / 55 dB80 / 55 dB80 / 55 dBSelectivity (TIA603D), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D, 25* / 12.5 kHz70 / 63 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D, 25* / 12.5 kHz70 / 63 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D/ETSI)82 / 73 dBSpurious Rejection (TIA603D/ETSI)	Input Voltage (DC)		11.0-14.4 Vdc		
Operating Temperature Range   -22 to +140 °F (-30 to +60 °C)     Humidity   RH of 95%, non-condensing at 122F (50 C)     Max Duty Cycle   100%     FCC Description   ABZ99FT3094   ABZ99FT4096   ABZ99FT4097     IC Description   109AB-99FT3094   109AB-99FT4096   109AB-99FT4097     IC Description   109AB-99FT3094   109AB-99FT4096   109AB-99FT4097     IC Description   109AB-99FT3094   109AB-99FT4096   109AB-99FT4097     ID gital Vocoder Type   AMBE+2™   12 V, 3 A   12 V, 3 A     Connectivity   Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet   Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327     RECEIVER   Digital Conventional, IP Site Connect Plus, Analog Conventional, MPT 1327   Recence Plus, Analog Conventional, MPT 1327     Requency Range   136-174 MHz   400-470 MHz   450-512 MHz     Channel Spacing   25*/ 12.5 kHz   450-512 MHz     Frequency Stability   0.52 ppm   95 / 12.5 kHz     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB	Current (standby)		0.7 A		
RH of 95%, non-condensing at 122F (50 C)     Max Duty Cycle   100%     FCC Description   ABZ99FT3094   ABZ99FT4096   ABZ99FT4097     IC Description   109AB-99FT3094   109AB-99FT4096   109AB-99FT4097     Digital Vocoder Type   AMBE+2™   Battery Charger Capacity   12 V, 3 A     Connectivity   Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet     Supported System Types   Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327     RECEIVER   Frequency Range   136-174 MHz   400-470 MHz   450-512 MHz     Channel Spacing   25*/ 12.5 kHz   Frequency Stability   0.22 uV     Sensitivity, 12dB SINAD   0.22 uV   Sensitivity, 12dB SINAD   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603D, 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603D, 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB	Current (transmitting)		9.5 A		
Max Duty Cycle100%FCC DescriptionABZ99FT3094ABZ99FT4096ABZ99FT4097IC Description109AB-99FT3094109AB-99FT4096109AB-99FT4097Digital Vocoder TypeAMBE+2™Battery Charger Capacity12 V, 3 AConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327 <b>RECEIVER</b> Frequency Range136-174 MHz400-470 MHz450-512 MHzChannel Spacing0.22 uVSensitivity, 12dB SINAD0.22 uVSelectivity (TIA603D), 25* / 12.5 kHz83 / 55 dB80 / 55 dB80 / 55 dB80 / 55 dB80 / 68 dBSelectivity (TIA603D, 25* / 12.5 kHz70 / 63 dBSelectivity (TIA603D/ETSI)82 / 73 dBSpurious Rejection (TIA603D/ETSI)82 / 73 od B	Operating Temperature Range		-22 to +140 °F (-30 to +60 °C)		
ABZ99FT3094ABZ99FT4096ABZ99FT4097IC Description109AB-99FT3094109AB-99FT4096109AB-99FT4097IC Description109AB-99FT3094109AB-99FT4096109AB-99FT4097Digital Vocoder TypeAMBE+2™AMBE+2™Battery Charger Capacity12 V, 3 A2 V, 3 AConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel Spacing25*/12.5 kHzFrequency Stability0.22 uVSensitivity, 12dB SINAD0.22 uVSelectivity (TIA603), 25* / 12.5 kHz83 / 55 dB80 / 55 dB <td>Humidity</td> <td colspan="3">RH of 95%, non-condensing at 122F (50 C)</td>	Humidity	RH of 95%, non-condensing at 122F (50 C)			
IC Description109AB-99FT3094109AB-99FT4096109AB-99FT4097Digital Vocoder TypeAMBE+2™Battery Charger Capacity12 V, 3 AConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel Spacing25*/ 12.5 kHz450-512 MHzFrequency Stability0.5 ppmSensitivity, 12dB SINAD0.22 uVSensitivity, 12dB SINAD0.22 uVSelectivity (TIA603), 25* / 12.5 kHz83 / 55 dB80 / 55 dB80 / 55 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSel / 80 / 55 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSel / 55 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSel / 68 dBSelectivity (TIA603), 25* / 12.5 kHz70 / 63 dB80 / 68 dB80 / 68 dBSel / 68 dBSelectivity (TIA603D/ETSI)82 / 73 dBSpirious Rejection (TIA603D/ETSI)55 / 90 dBSel / 90 dB	Max Duty Cycle		100%		
Digital Vocoder Type   AMBE+2™     Battery Charger Capacity   12 V, 3 A     Connectivity   Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet     Supported System Types   Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327     RECEIVER   Frequency Range   136-174 MHz   400-470 MHz   450-512 MHz     Channel Spacing   25*/ 12.5 kHz   Frequency Stability   0.5 ppm     Sensitivity, 12dB SINAD   0.22 uV   Sensitivity, 5% BER   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   82 / 73 dB   82 / 73 dB     Spurious Rejection (TIA603D/ETSI)   95 / 90 dB   57 / 90 dB	FCC Description	ABZ99FT3094	ABZ99FT4096	ABZ99FT4097	
Battery Charger Capacity12 V, 3 AConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel SpacingC25*/ 12.5 kHzFrequency Stability0.5 ppmSensitivity, 12dB SINAD0.22 uVSelectivity (TIA603D), 25* / 12.5 kHz83 / 55 dB80 / 55 dBSelectivity (TIA603), 25* / 12.5 kHzSelectivity (TIA603), 25* / 12.5 kHzSelectivity (TIA603D), 25* / 12.5 kHzSelectivity (TIA603D, 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (TIA603D/ETSI)Selectivity (TIA603D/ETSI)Selectivity	IC Description	109AB-99FT3094	109AB-99FT4096	109AB-99FT4097	
ConnectivityTx (N female), Rx (BNC female), USB A receptacle, 2x EthernetSupported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel SpacingC25*/ 12.5 kHzFrequency Stability0.5 ppmSensitivity, 12dB SINAD0.22 uVSensitivity, 12dB SINAD0.22 uVSelectivity (TIA603D), 25* / 12.5 kHz83 / 55 dB80 / 55 dB80 / 55 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603), 25* / 12.5 kHzSelectivity (TIA603D), 25* / 12.5 kHzSelectivity (TIA603D, 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (TIA603D, 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (ETSI), 25* / 12.5 kHzSelectivity (TIA603D/ETSI)Selectivity (TIA603D/ETSI)Selectivity (Selectivity (ETSI), 25* / 12.5 kHz <tr <td="" colspan="2">Selectivity</tr>	Digital Vocoder Type	AMBE+2™			
Supported System TypesDigital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma Connect Plus, Analog Conventional, MPT 1327RECEIVERFrequency Range136-174 MHz400-470 MHz450-512 MHzChannel Spacing25*/ 12.5 kHz5Frequency Stability0.5 ppmSensitivity, 12dB SINAD0.22 uVSensitivity, 5% BER0.22 uVSelectivity (TIA603D), 25* / 12.5 kHz83 / 55 dB80 / 55 dB80 / 55 dBSelectivity (TIA603), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 68 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz83 / 68 dB80 / 69 dB80 / 68 dBSelectivity (ETSI), 25* / 12.5 kHz95 / 90 dB95 / 90 dB	Battery Charger Capacity	12 V, 3 A			
Connect Plus, Analog Conventional, MPT 1327       RECEIVER       Frequency Range     136-174 MHz     400-470 MHz     450-512 MHz       Channel Spacing     25*/ 12.5 kHz     5 ppm       Frequency Stability     0.5 ppm     0.22 uV       Sensitivity, 12dB SINAD     0.22 uV     0.22 uV       Selectivity (TIA603D), 25* / 12.5 kHz     83 / 55 dB     80 / 55 dB     80 / 55 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (ETSI), 25* / 12.5 kHz     70 / 63 dB     80 / 68 dB     80 / 68 dB       Selectivity (ETSI), 25* / 12.5 kHz     82 / 73 dB     95 / 90 dB     95 / 90 dB	Connectivity	Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet			
Frequency Range   136-174 MHz   400-470 MHz   450-512 MHz     Channel Spacing   25*/ 12.5 kHz   25*/ 12.5 kHz   10.5 ppm     Frequency Stability   0.5 ppm   0.22 uV   0.22 uV     Sensitivity, 12dB SINAD   0.22 uV   0.22 uV   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   70 / 63 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   82 / 73 dB   95 / 90 dB   95 / 90 dB	Supported System Types	Digital Conventional, IP Site Connect, Capacity Plus (Single Site and Multi-Site), Capacity Ma. Connect Plus, Analog Conventional, MPT 1327			
Channel Spacing   25*/ 12.5 kHz     Frequency Stability   0.5 ppm     Sensitivity, 12dB SINAD   0.22 uV     Sensitivity, 5% BER   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   82 / 73 dB   82 / 73 dB   95 / 90 dB	RECEIVER	·			
Frequency Stability   0.5 ppm     Sensitivity, 12dB SINAD   0.22 uV     Sensitivity, 5% BER   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   70 / 63 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   82 / 73 dB   82 / 73 dB   95 / 90 dB     Spurious Rejection (TIA603D/ETSI)   95 / 90 dB   95 / 90 dB   95 / 90 dB	Frequency Range	136-174 MHz	400-470 MHz	450-512 MHz	
Sensitivity, 12dB SINAD   0.22 uV     Sensitivity, 5% BER   0.22 uV     Selectivity (TIA603D), 25* / 12.5 kHz   83 / 55 dB   80 / 55 dB   80 / 55 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (TIA603), 25* / 12.5 kHz   83 / 68 dB   80 / 68 dB   80 / 68 dB     Selectivity (ETSI), 25* / 12.5 kHz   70 / 63 dB   81 / 55 dB   82 / 73 dB     Intermodulation Rejection (TIA603D/ETSI)   82 / 73 dB   82 / 90 dB	Channel Spacing	25*/ 12.5 kHz			
Sensitivity, 5% BER     0.22 uV       Selectivity (TIA603D), 25* / 12.5 kHz     83 / 55 dB     80 / 55 dB     80 / 55 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 dB     80 / 68 dB       Selectivity (ETSI), 25* / 12.5 kHz     70 / 63 dB     80 / 68 dB     80 / 68 dB       Selectivity (ETSI), 25* / 12.5 kHz     70 / 63 dB     82 / 73 dB       Intermodulation Rejection (TIA603D/ETSI)     82 / 73 dB     95 / 90 dB	Frequency Stability	0.5 ppm			
Selectivity (TIA603D), 25* / 12.5 kHz     83 / 55 dB     80 / 68	Sensitivity, 12dB SINAD	0.22 uV			
Selectivity (TIA603), 25* / 12.5 kHz     83 / 68 dB     80 / 68 d	Sensitivity, 5% BER		0.22 uV		
Selectivity (ETSI), 25*/ 12.5 kHz     70 / 63 dB       Intermodulation Rejection (TIA603D/ETSI)     82 / 73 dB       Spurious Rejection (TIA603D/ETSI)     95 / 90 dB	Selectivity (TIA603D), 25* / 12.5 kHz	83 / 55 dB	80 / 55 dB	80 / 55 dB	
Intermodulation Rejection (TIA603D/ETSI) 82 / 73 dB   Spurious Rejection (TIA603D/ETSI) 95 / 90 dB	Selectivity (TIA603), 25* / 12.5 kHz	83 / 68 dB	80 / 68 dB	80 / 68 dB	
Spurious Rejection (TIA603D/ETSI) 95 / 90 dB	Selectivity (ETSI), 25*/ 12.5 kHz	70 / 63 dB			
	Intermodulation Rejection (TIA603D/ETSI)	82 / 73 dB			
Audio Distortion <1%	Spurious Rejection (TIA603D/ETSI)	95 / 90 dB			
	Audio Distortion	< 1%			

### **TRANSMITTER**

Transmitter Hum and Noise, 25\* / 12.5 kHz

Frequency Range	136-174 MHz	400-470 MHz	450-512 MHz
RF Output Power	1-50 W		
Max Duty Cycle	100%		
Channel Spacing	25*/ 12.5 kHz		
Frequency Stability	0.5 ppm		
Intermodulation Attenuation	40 dB		
Adjacent Channel Power (TIA603D), 25*/ 12.5 kHz	78 / 62 dB		
Adjacent Channel Power (ETSI), 25* / 12.5 kHz	78 / 62 dB		
Conducted Spurious Emissions	-36 dBm < 1 GHz, -30 dBm > 1 GHz		
Modulation Fidelity (4FSK)	FSK Error 5%, FSK Magnitude 1%		
Audio Response	TIA603D		
Audio Distortion	<1%		
Receiver Hum and Noise, 25*/ 12.5 kHz	-50dB / -45		
Rated System Deviation, 25* /12.5 kHz	±5.0 / ±2.5 kHz		

-50dB / -45

Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

 $<sup>^{\</sup>ast}$  25 kHz channels not available in the US

For more information on how to make your business more efficient and better connected, visit www.motorolasolutions.com/mototrbo

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