

Pages 1 to 15

# LOAD, RF, COAXIAL, TYPE TNC, DC - 18GHz

# **ESCC Detail Specification No. 58**

Issue 1 - DRAFT B	January 2006
-------------------	--------------





#### **LEGAL DISCLAIMER AND COPYRIGHT**

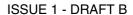
European Space Agency, Copyright © 2006. All rights reserved.

The European Space Agency disclaims any liability or responsibility, to any person or entity, with respect to any loss or damage caused, or alleged to be caused, directly or indirectly by the use and application of this ESCC publication.

This publication, without the prior permission of the European Space Agency and provided that it is not used for a commercial purpose, may be:

- copied in whole, in any medium, without alteration or modification.
- copied in part, in any medium, provided that the ESCC document identification, comprising the ESCC symbol, document number and document issue, is removed.



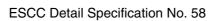




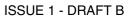
# **DOCUMENTATION CHANGE NOTICE**

(Refer to https://escies.org for ESCC DCR content)

DCR No.	CHANGE DESCRIPTION









<u>1.</u>	<u>GENERAL</u>	<u>5</u>
1.1	Scope	5
1.2	Applicable Documents	5
1.3	Terms, Definitions, Abbreviations, Symbols and Units	5
1.4	The ESCC Component Number and Component Type Variants	5
1.4.1	The ESCC Component Number	5
1.4.2	Component Type Variants and Range of Components	5
1.5	Maximum Ratings	6
1.6	Physical Dimensions	6
1.6.1	Interface Dimensions	7
1.6.2	Mating Gauge Dimensions	9
1.7	Materials and Finishes	10
<u>2.</u>	<u>REQUIREMENTS</u>	<u>11</u>
2.1	General	11
2.1.1	Deviations from the Generic Specification	11
2.1.1.1	Deviations from Qualification and Periodic Tests - Chart F4	11
2.2	Marking	11
2.3	Coupling Proof Torque Test	11
2.4	Mating and Unmating Forces Test	11
2.5	Electrical Measurements at Room, High and Low temperatures	11
2.5.1	Room Temperature Electrical Measurements	11
2.5.2	High and Low Temperatures Electrical Measurements	12
2.6	Parameter Drift Values	12
2.7	Intermediate and End-Point Electrical Measurements	12
2.8	Burn-in Conditions	14
2.9	Operating Life Conditions	15





#### 1. GENERAL

#### 1.1 SCOPE

This specification details the ratings, physical and electrical characteristics and test and inspection data for the component type variants and/or the range of components specified below. It supplements the requirements of, and shall be read in conjunction with, the ESCC Generic Specification listed under Applicable Documents.

#### 1.2 <u>APPLICABLE DOCUMENTS</u>

The following documents form part of this specification and shall be read in conjunction with it:

(a) ESCC Generic Specification No. 3403.

#### 1.3 TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. 21300 shall apply.

#### 1.4 THE ESCC COMPONENT NUMBER AND COMPONENT TYPE VARIANTS

#### 1.4.1 <u>The ESCC Component Number</u>

The ESCC Component Number shall be constituted as follows:

Example: 3403xxx01

Detail Specification Reference: 3403xxx

Component Type Variant Number: 01 (as required)

#### 1.4.2 <u>Component Type Variants and Range of Components</u>

The component type variants and range of components applicable to this specification are as follows:

Variant Number	Connector Type	VSWR	Weight max (g)
01	TNC Male	DC < f ≤ 4GHz ≤1.08	23
		4 < f ≤ 8GHz ≤1.1	
		8 < f ≤ 12.4GHz ≤1.15	
		12.4 < f ≤18GHz ≤1.2	



#### 1.5 MAXIMUM RATINGS

The maximum ratings shall not be exceeded at any time during use or storage.

Maximum ratings shall only be exceeded during testing to the extent specified in this specification and when stipulated in Test Methods and Procedures of the ESCC Generic Specification.

Characteristics	Symbols	Maximum Ratings	Units	Remarks
RF Power	P <sub>RF</sub>	2	W	Note 1
Peak Power	P <sub>P</sub>	100	W	duration 1µs 1% duty cycle
DC Power	P <sub>DC</sub>	2	W	T <sub>amb</sub> =+25°C
Impedance	Z	47.5 to 52.5	Ω	-
Frequency Range	f <sub>op</sub>	DC to 18	GHz	-
RF Leakage	E	-[80dB - f(GHz)]	dBi	-
Operating Temperature Range	T <sub>op</sub>	-55 to +125	°C	T <sub>amb</sub>
Storage Temperature Range	T <sub>stg</sub>	-55 to +125	°C	-
Coupling Nut Torque	Tq	265	N.cm	Note 2

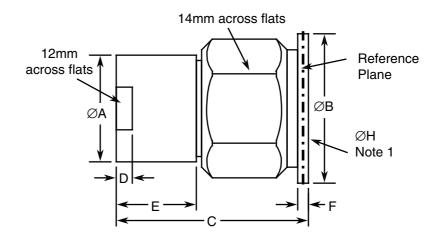
# **NOTES:**

1. RF Power shall be derated against operating temperature as follows:

 $P_{RF}$  at  $T_{op} \le +25$ °C. Derate linearly to 0W at  $T_{op} = +125$ °C.

2. Coupling Proof Torque: 339N.cm

## 1.6 PHYSICAL DIMENSIONS





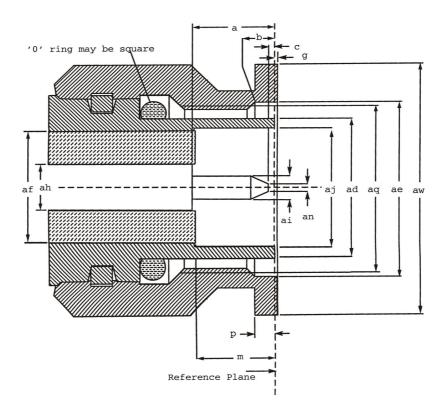
Symbols	Dimensions mm				
	Min	Max			
ØA	12.95	13.05			
ØB	15.9	16			
С	-	25			
D	2.5	3			
E	9.15	9.45			
F	1.8	2.2			
ØH	0.9	1			

# **NOTES:**

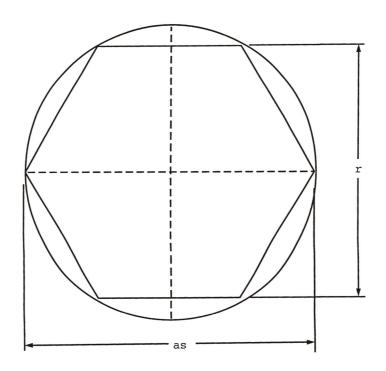
1. 3 holes 120° apart on Ø13.8(+0.2 -0)mm

# 1.6.1 <u>Interface Dimensions</u>

# Male Interface





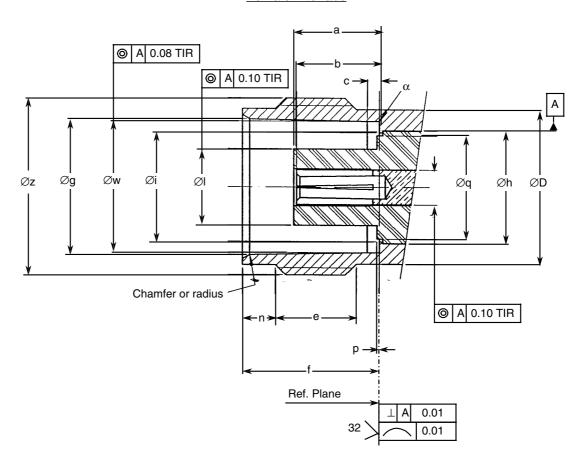


Symbols	Dimensions mm		
	Min	Max	Notes
а	5.35	5.5	
b	1.5	2.4	
С	0.35	0.9	
Ød	8.03	8.09	
Øe	11.4	11.6	
Øf	5.28	5.32	
g	-0.3	+0.55	
Øh	1.62	1.66	
Øj	6.18	6.22	
ØI	1.34	1.36	
m	5.28	5.38	
Øn	0.35	0.65	
р	1.5	2.4	
Øq	7/16-28	JNEF-2B	
r	-	14	hexagon
Øs	-	16	
Øw	-	16	

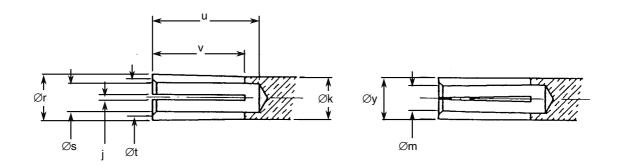


# 1.6.2 <u>Mating Gauge Dimensions</u>

# Female Interface



# Detailed view of centre contact





Min       Max         a       5.21       5.28       Contact recess         b       5.08       5.28       Insert recess         c       0.51       1.02         ØD       9.6       9.68         e       4.75       -         f       8.36       8.46         Øg       8.31       8.46         Øh       6.99       7.01         Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical	Symbols	Dimensi	ons mm	
b 5.08 5.28 Insert recess  c 0.51 1.02  ØD 9.6 9.68  e 4.75 -  f 8.36 8.46  Øg 8.31 8.46  Øh 6.99 7.01  Øi 6.71 6.76  j 0.26 0.34 4 slots /90° apart  Øk 2.16 2.18  Øl 4.67 4.72  Øm 1.21 1.3 After heat treatment  n 1.73 2.24  p 0 0 0.15  Øq - 6.5  Ør 2.45 2.48  Øs 1.52 1.58  Øt 1.68 1.88 90°  u 5.21 -  v 4.75 typical  Øw 8.1 8.15  Øy 2.23 2.31 Mated with Ø1.36 pin, gauge over slotted portion only		Min	Max	Notes
c       0.51       1.02         ØD       9.6       9.68         e       4.75       -         f       8.36       8.46         Øg       8.31       8.46         Øh       6.99       7.01         Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only	а	5.21	5.28	Contact recess
ØD       9.6       9.68         e       4.75       -         f       8.36       8.46         Øg       8.31       8.46         Øh       6.99       7.01         Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only	b	5.08	5.28	Insert recess
e 4.75	С	0.51	1.02	
f 8.36 8.46  Øg 8.31 8.46  Øh 6.99 7.01  Øi 6.71 6.76  j 0.26 0.34 4 slots /90° apart  Øk 2.16 2.18  Øl 4.67 4.72  Øm 1.21 1.3 After heat treatment  n 1.73 2.24  p 0 0.15  Øq - 6.5  Ør 2.45 2.48  Øs 1.52 1.58  Øt 1.68 1.88 90°  u 5.21 -  v 4.75 typical  Øw 8.1 8.15  Øy 2.23 2.31 Mated with Ø1.36 pin, gauge over slotted portion only	ØD	9.6	9.68	
Øg       8.31       8.46         Øh       6.99       7.01         Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only	е	4.75	-	
Øh       6.99       7.01         Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only	f	8.36	8.46	
Øi       6.71       6.76         j       0.26       0.34       4 slots /90° apart         Øk       2.16       2.18         Øl       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	Øg	8.31	8.46	
j 0.26 0.34 4 slots /90° apart  Øk 2.16 2.18  Øl 4.67 4.72  Øm 1.21 1.3 After heat treatment  n 1.73 2.24  p 0 0.15  Øq - 6.5  Ør 2.45 2.48  Øs 1.52 1.58  Øt 1.68 1.88 90°  u 5.21 -  v 4.75 typical  Øw 8.1 8.15  Øy 2.23 2.31 Mated with Ø1.36 pin, gauge over slotted portion only	Øh	6.99	7.01	
Øk         2.16         2.18           Øl         4.67         4.72           Øm         1.21         1.3         After heat treatment           n         1.73         2.24           p         0         0.15           Øq         -         6.5           Ør         2.45         2.48           Øs         1.52         1.58           Øt         1.68         1.88         90°           u         5.21         -           v         4.75 typical           Øw         8.1         8.15           Øy         2.23         2.31         Mated with Ø1.36 pin, gauge over slotted portion only           Øz         7/16 - 28 UNEF - 2A	Øi	6.71	6.76	
ØI       4.67       4.72         Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	j	0.26	0.34	4 slots /90° apart
Øm       1.21       1.3       After heat treatment         n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	Øk	2.16	2.18	
n       1.73       2.24         p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	ØI	4.67	4.72	
p       0       0.15         Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	Øm	1.21	1.3	After heat treatment
Øq       -       6.5         Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	n	1.73	2.24	
Ør       2.45       2.48         Øs       1.52       1.58         Øt       1.68       1.88       90°         u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	р	0	0.15	
Øs         1.52         1.58           Øt         1.68         1.88         90°           u         5.21         -           v         4.75 typical           Øw         8.1         8.15           Øy         2.23         2.31         Mated with Ø1.36 pin, gauge over slotted portion only           Øz         7/16 - 28 UNEF - 2A	Øq	-	6.5	
Øt         1.68         1.88         90°           u         5.21         -           v         4.75 typical           Øw         8.1         8.15           Øy         2.23         2.31         Mated with Ø1.36 pin, gauge over slotted portion only           Øz         7/16 - 28 UNEF - 2A	Ør	2.45	2.48	
u       5.21       -         v       4.75 typical         Øw       8.1       8.15         Øy       2.23       2.31       Mated with Ø1.36 pin, gauge over slotted portion only         Øz       7/16 - 28 UNEF - 2A	Øs	1.52	1.58	
v         4.75 typical           Øw         8.1         8.15           Øy         2.23         2.31         Mated with Ø1.36 pin, gauge over slotted portion only           Øz         7/16 - 28 UNEF - 2A	Øt	1.68	1.88	90°
Øw         8.1         8.15           Øy         2.23         2.31         Mated with Ø1.36 pin, gauge over slotted portion only           Øz         7/16 - 28 UNEF - 2A	u	5.21	-	
<ul> <li>Øy</li> <li>Øz</li> <li>2.23</li> <li>2.31</li> <li>Mated with Ø1.36 pin, gauge over slotted portion only</li> <li>Øz</li> <li>7/16 - 28 UNEF - 2A</li> </ul>	V	4.75 t	ypical	
over slotted portion only  Øz 7/16 - 28 UNEF - 2A	Øw	8.1	8.15	
	Øy	2.23	2.31	Mated with Ø1.36 pin, gauge over slotted portion only
α - 0.1 Radius	Øz	7/16 - 28 l	JNEF - 2A	
	α	-	0.1	Radius

# 1.7 <u>MATERIALS AND FINISHES</u>

Materials and finishes shall be as follows:

- a. Shell: Amagnetic Stainless Steel, electro-passivated
- b. Coupling Nut: Amagnetic Stainless Steel, electro-passivated
- c. Centre Contact: Beryllium Copper, with nickel underplate ( $2\mu m$  minimum) and Gold plating ( $1.3\mu m$  minimum)
- d. Inserts: PTFE
- e. Gaskets: Silicone rubber



#### 2. REQUIREMENTS

#### 2.1 GENERAL

The complete requirements for procurement of the components specified herein are as stated in this specification and the ESCC Generic Specification. Permitted deviations from the Generic Specification, applicable to this specification only, are listed below.

Permitted deviations from the Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirement and do not affect the component's reliability, are listed in the appendices attached to this specification.

#### 2.1.1 Deviations from the Generic Specification

#### 2.1.1.1 Deviations from Qualification and Periodic Tests - Chart F4

(a) Residual Magnetism: is not applicable

# 2.2 MARKING

The marking shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and as follows.

The information to be marked on the component shall be:

- (a) The ESCC qualified components symbol (for ESCC qualified components only).
- (b) The ESCC Component Number.
- (c) Traceability information.

# 2.3 <u>COUPLING PROOF TORQUE TEST</u>

Ref. Coupling Proof Torque in the ESCC Generic Specification.

Coupling Proof Torque: 339N.cm.

#### 2.4 MATING AND UNMATING FORCES TEST

Ref. Mating and Unmating Forces in the ESCC Generic Specification.

Maximum Torque during mating or unmating: 22.6N.cm.

#### 2.5 <u>ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES</u>

The measurements shall be performed at room, high and low temperatures.

#### 2.5.1 Room Temperature Electrical Measurements

The measurements shall be performed at  $T_{amb}$ =+22 ±3°C.



Characteristics	Symbols	Test Method and	d Limits		Units
		Conditions	Min	Max	
Voltage Standing Wave Ratio	VSWR	ESCC No. 3403 f = 0 to 18GHz	-	Note 1	-
Resistance	R	DC test	47.5	52.5	Ω

#### **NOTES:**

1. The limits for VSWR are as specified in Component Type Variants and Range of Components.

# 2.5.2 <u>High and Low Temperatures Electrical Measurements</u>

The measurements shall be performed at  $T_{amb}$ =+125 (+0 -3) °C and  $T_{amb}$ =-55 (+3 -0) °C.

Characteristics	Symbols	Test Method and	Limits		Units
		Conditions (Note 1)	Min	Max	
Temperature Coefficient of Resistance	TC <sub>R</sub>	DC test Reference Temperature: 25°C	-	3 x 10 <sup>-4</sup>	Ω/Ω/°C

#### **NOTES:**

1. Measurements shall be performed during Screening Tests on a sample of 2 components. In the event of any failure a 100% inspection shall be performed.

#### 2.6 PARAMETER DRIFT VALUES

Unless otherwise specified, the measurements shall be performed at  $T_{amb}$ =+22 ±3°C.

The test methods and test conditions shall be as per the corresponding test defined in Room Temperature Electrical Measurements.

The drift values ( $\Delta$ ) shall not be exceeded for each characteristic where specified. The corresponding absolute limit values for each characteristic shall not be exceeded.

Characteristics	Symbols	Drift Value ∆	Units
Voltage Standing Wave Ratio	∆VSWR VSWR	±2	%
Resistance	ΔR	±250	mΩ

#### 2.7 <u>INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS</u>

Unless otherwise specified, the measurements shall be performed at  $T_{amb}$ =+22  $\pm 3^{o}$ C.

The test methods and test conditions shall be as per the corresponding test defined in Room Temperature Electrical Measurements.

The drift values (Δ) shall not be exceeded for each characteristic where specified. The corresponding



absolute limit values for each characteristic shall not be exceeded.

Test Reference per	Characteristics	Symbols Limits		Units	
ESCC No. 3403			Min	Max	
Vibration Initial Measurements	Resistance Voltage Standing Wave Ratio	R VSWR	47.5 Note 1	52.5 Note 1	Ω -
Measurements during last cycle	Intermittent contact	-	No discontin No open or s	•	-
Final Measurements	Resistance	R	47.5	52.5	Ω
	Resistance Drift (from initial measurement)	ΔR	-	±250	mΩ
	Voltage Standing Wave Ratio	VSWR	Note 1	Note 1	-
	VSWR Drift (from Initial measurement)	ΔVSWR VSWR	-	±2	%
Shock Initial Measurements	Resistance (Note 2) Voltage Standing Wave Ratio (Note 2)	R VSWR	47.5 Note 1	52.5 Note 1	Ω -
Final Measurements	Resistance	R	47.5	52.5	Ω
	Resistance Drift (from initial measurement)	ΔR	-	±250	mΩ
	Voltage Standing Wave Ratio	VSWR	Note 1	Note 1	-
	VSWR Drift (from Initial measurement)	ΔVSWR VSWR	-	±2	%
Rapid Change of Temperature					
Initial Measurements	Resistance Voltage Standing Wave Ratio	R VSWR	47.5 Note 1	52.5 Note 1	Ω -
Final Measurements	Resistance	R	47.5	52.5	Ω
	Resistance Drift (from initial measurement)	ΔR	-	±250	mΩ
	Voltage Standing Wave Ratio	VSWR	Note 1	Note 1	-
	VSWR Drift (from Initial measurement)	ΔVSWR VSWR	-	±2	%
Climatic Sequence					
Initial Measurements	Resistance (Note 2) Voltage Standing Wave Ratio (Note 2)	R VSWR	47.5 Note 1	52.5 Note 1	Ω -
Measurements during Dry Heat	Temperature Coefficient of Resistance	TC <sub>R</sub>	-	3 x 10 <sup>-4</sup>	Ω/Ω/°C



Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3403			Min	Max	
Measurements during Cold	Temperature Coefficient of Resistance	TC <sub>R</sub>	-	3 x 10 <sup>-4</sup>	Ω/Ω/°C
Final Measurements	Resistance	R	47.5	52.5	Ω
	Resistance Drift (from initial measurement)	ΔR	-	±250	mΩ
	Voltage Standing Wave Ratio	VSWR	Note 1	Note 1	-
	VSWR Drift (from Initial measurement)	ΔVSWR VSWR	-	±2	%
Operating Life Initial Measurements	Resistance (Note 2)	R	47.5	52.5	Ω
	Voltage Standing Wave Ratio (Note 2)	VSWR	Note 1	Note 1	-
Final Measurements	Resistance	R	47.5	52.5	Ω
	Resistance Drift (from initial measurement)	ΔR	-	±250	mΩ
	Voltage Standing Wave Ratio	VSWR	Note 1	Note 1	-
	VSWR Drift (from Initial measurement)	ΔVSWR VSWR	-	±2	%
RF Leakage	RF leakage f = 0 to 18GHz	Е	-62	-	dBi
Peak Power					
Final Measurements	Resistance Voltage Standing Wave Ratio	R VSWR	47.5 Note 1	52.5 Note 1	Ω -

# NOTES:

- 1. The limits for VSWR are as specified in Component Type Variants and Range of Component:
- 2. This test need not be repeated. The most recent result from the previous test may be used instead.

# 2.8 <u>BURN-IN CONDITIONS</u>

Characteristics	Symbols	Test Conditions	Units
Ambient Temperature	T <sub>amb</sub>	+125	°C
Power	P <sub>in</sub>	0	W



# 2.9 <u>OPERATING LIFE CONDITIONS</u>

Characteristics	Symbols	Test Conditions	Units
Ambient Temperature	T <sub>amb</sub>	+25	°C
Power	P <sub>in</sub>	Note 1	W
Frequency	f <sub>in</sub>	18	GHz

# NOTES:

1. Rated RF Power as specified in Maximum Ratings.