

GF7-SMS449D is a replacement
for Pic's 110285

PRELIMINARY

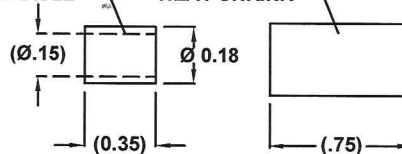
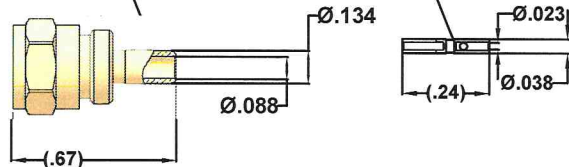
REVISIONS					
ECN	REVISION	ZONE	DESCRIPTION OF CHANGE	APPROVED	DATE
1129	NR	-	INITIAL RELEASE	CC	6-5-25
1204	A	D6 B4	UPDATED Pic REPLACEMENT PART NUMBER REMOVED POSITIONER K1452 AND HAND TOOL FROM NOTE 3	CC	9-30-25

SMC
CONNECTOR

CENTER
CONTACT

CRIMP
FERRULE

ADHESIVE
HEAT SHRINK



1.0 PERFORMANCE

- 1.1 Frequency range: DC - 10 GHz
- 1.2 Nominal impedance: 75 Ohms
- 1.3 Working voltage: 335 Vrms @ sea level
- 1.4 DWV: 750 Vrms @ sea level
- 1.5 Insulation resistance: 1000 Megaohms @ 500 volts DC
- 1.6 VSWR < 1.2:1 Max DC-2 GHz
- 1.7 Insertion Loss < 0.2 dB Max DC-2 GHz

2.0 MATERIALS

- 2.1 Body: Brass per ASTM-B-16
- 2.2 Contact: BeCu per ASTM-B-196
- 2.3 Dielectric: PTFE per ASTM-D-1710, type I, GR.1, CLA
- 2.4 Other Metal Parts: Brass per ASTM-B-16
- 2.5 Ferrule: Copper per ASTM-B-16 or Copper CDA-122
- 2.6 Heat shrink: ATUM PER MIL-I-23053/4, Class 3

3.0 FINISHES

- 3.1 Body, Contact, Other Metal Parts: Gold per MIL-PRF-39012
- 3.2 Ferrule: Albaloy Tri-M

4.0 MECHANICAL

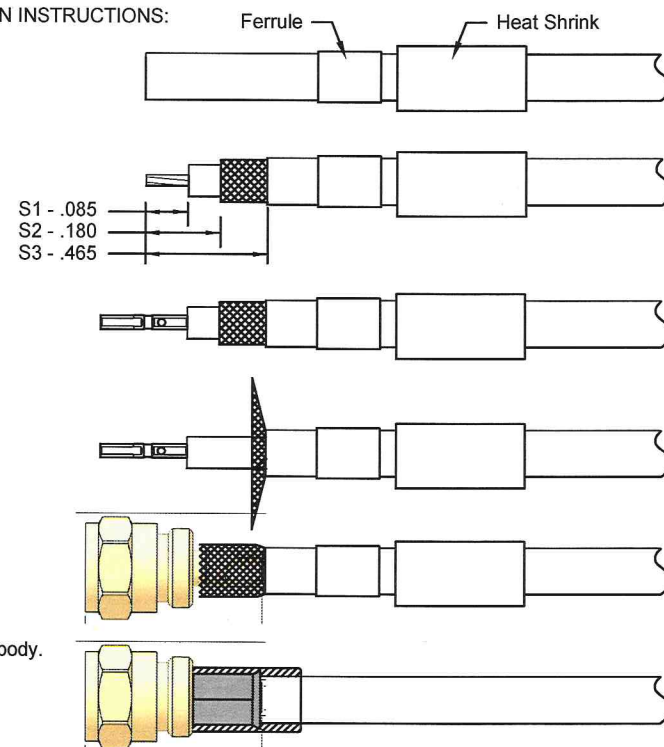
- 4.1 Termination style: Cable contact-solder or crimp, Crimp ferrule
- 4.2 Cable retention: 30 LBS

5.0 ENVIRONMENTAL

- 5.1 Temperature range: -65/+165 °C
- 5.2 Vibration: MIL-STD-202, Method 204, COND B
- 5.3 Shock: MIL-STD-202, Method 213, COND I
- 5.4 Thermal shock: MIL-STD-202, Method 107, COND B
- 5.5 Corrosion: MIL-STD-202, Method 101, COND. B
- 5.6 Moisture resistance: MIL-STD-202, Method 106

TERMINATION INSTRUCTIONS:

- 1) Slide heat shrink and ferrule over end of cable prior to stripping cable. Ensure cable end is cut square.
- 2) When using automated stripping equipment, strip cable to dimensions shown. If automated stripping equipment is not available strip S1 and S3 only and trim excess shield at step 5. Care should be taken not to nick the center conductor and shield.
- 3) Install contact onto cable conductor flush with dielectric. Contact to be soldered.
- 4) Fold all shields back perpendicular to cable using a tweezers.
- 5) Slide the connector onto the cable until the contact snaps into the dielectric lock of the connector. Fold all shields back over the end of the connector.
- 6) Slide the ferrule over the shield until it is against the connector body. Trim any excess shield. Crimp the ferrule using Y187 (0.156 hex) with hand tool M22520/5-01 or equivalent. After crimping ferrule apply adhesive heat shrink.



*RoHS/REACH Compliant

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES.
ALL DIMENSIONS ARE FOR REFERENCE ONLY.

DESIGNED BY: T Forst	DATE: 6/2/2025	CHECKED BY: M Fregoso	DATE: 6/4/2025	APPROVED BY: C Chapman	DATE: 6/5/2025
 GIGAFLIGHT CONNECTIVITY INC.			DESCRIPTION: SMC TYPE (NON-STANDARD) 75 OHM SCREW ON FEMALE PLUG GOLD PLATED		
6180 Industrial Ct. Greendale WI, 53129 Tel: 414-488-6320 Fax: 414-433-9041			CAGE CODE: 8A8D5	PART NUMBER: GF7-SMS449D	SHEET: 1 OF 1